CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 18, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—It is announced that this company has let a contract to BANCROFT & DOTY, of Topeka, Kan., for extensive improvements and a practical rebuilding of its line throughout Wellington, Kan., at a cost of $440,000. The route from Cicero, six miles northeast of Wellington, will be changed so as to reduce a heavy grade and a new line will be built north of the present one, crossing the Chicago, Rock Island & Pacific tracks on an overhead trestle and running across the Slate creek flats on a heavy fill.

ATLANTIC, NORTHERN & SOUTHERN.—Bonds for $75,000 are reported to have been sold and that this company has awarded contract to the ENGINEERING CONSTRUCTION & SECURITIES CO., 171 La Salle St., Chicago, for building its railway. It is to extend from Manning to Villisca, Iowa, 78 miles. The first sections will be built from Atlantic to Kimballton and Elkhorn. Surveys have been made. Capital and right-of-way are obtained. J. A. McWaid is Pres., and H. S. Rattenborg is Gen. Mgr., at Atlantic, Iowa.

BUFFALO, ROCHESTER & EASTERN.—Surveys are being made by Durkee, White & Towne, Engrs., of Springfield, Mass., who are in charge of the work. A. D. Robinson, Westfield, Mass., Secy., recently informed us that this "company has not yet secured its certificate from the Railroad Commissioners of New York State, consequently has done nothing in the way of awarding contract for the line or equipment of same. Engineers are now at work on the survey preliminary to a hearing before the railroad commissioners." As previously noted, the Buffalo, Rochester & Eastern R. R. Co. plans to build and operate a standard-gage railroad by steam, electricity or gasoline from Buffalo to Rochester and thence to Troy, a distance of 300 miles. The principal office of the road is to be located in Rochester. The line is to pass through the counties of Erie, Genesee, Olean, Monroe, Wayne, Cayuga, Onondaga, Madison, Oneida, Herkimer, Montgomery, Schoharie, Schenectady, Albany and Rensselaer. The capital stock is $3,500,000. The directors are Ralph G. Gillett, Henry W. Ely and Arthur D. Robinson, of Westfield, Mass.; Arthur W. Easton, of Pittsfield; Franklin Weston, of Dalton; Henry W. Bowman and Fred T. Levy, of Springfield; Joseph O. Skinner, of Holyoke; John J. Whipple, of Brockton, and James F. Sharpe, of Manchester, all in Massachusetts, and Joseph H. Caldwell, of Troy, N. Y.

CANEY, PIEDMONT & MOREHEAD.—This company has been incorporated in Kentucky to operate the Caney & West Liberty Railroad between Cannel City and Piedmont. The line may be extended. The incorporators are S. J. Gish, of Central City, Ky.; V. J. Blow, of Nashville, Tenn.; E. C. Hegan, W. F. Tafel, W. H. Netherland, Bernard Flexner and Karl Keller, all of Louisville, Ky.

GARDEN CITY, GULF & NORTHERN.—Bonds have been voted in Finney County, Kansas, for the construction of this line from Garden City, northwesterly, to St. Francis, Kan., about 150 miles. Scott County will vote on this proposition on July 23. G. L. Miller, Garden City, Kan., is Secy.

CHARLOTTE HARBOR & NORTHERN.—We are officially informed that this company will open its line for traffic from Boca Grande to Arcadia, Fla., on Aug. 1st, and that regular trains for freight, passenger, mail and express will be run after that date. Extensive docks and modern machinery for handling a large tonnage of phosphate rock, lumber and other material are being constructed at Boca Grande. L. M. Fouts is Gen. Mgr., at Jacksonville, Fla.

CHERRYVALE, OKLAHOMA & TEXAS.—An amended charter has been granted to the Cherryvale, Oklahoma & Texas R. R. Co. in Oklahoma, to build 700 miles southwest from Cherryvale, Kan., to El Paso, Tex. The following branch lines are provided: From Caney, Kan., southeast to Fayetteville, Ark., 150 miles; from Pawhuska, Okla., southeast to South McAlester, Ind. T., 200 miles, and from Childress, Tex., southeast, via Abilene, to Aransas Pass, Tex., 600 miles. Headquarters are established at Caney and Independence, Kan., and Perry, Okla. Capital stock, $18,000,000. The main incorporators are S. M. Porter, of Caney; A. W. Shiltise, F. D. and J. H. Brewster, of Independence; R. E. Wade and John H. Masters, of Perry.

COLUMBUS, MEMPHIS & PENSACOLA.—Officers have been elected for this new company, which proposes to build from Aberdeen, Miss., to Columbus, as follows: Pres., H. E. Reynolds; Vice-Pres., C. Y. Reynolds; Gen. Mgr., B. L. Reynolds, all of Aberdeen, Miss.; Secy. and Treas., Charles B. Hopkins, Columbus, Miss.

IDAHO NORTHERN.—Contracts for the first 33 miles of this line will be let at once. It is to run from Kingston, Idaho, on the Northern Pacific, to Murray, about 25 miles. A number of branches into the Coeur d'Alene country will bring the total mileage to 75 miles. E. P. Spaulding, of Spokane, Wash., is interested.

KALAMAZOO, LAKE SHORE & CHICAGO.—We are officially advised that this company is building a branch line 4½ miles long from Toquin to Paw Paw Lake, Mich., with its own forces. Work is nearly completed. New depot and terminal yards will be built at Kalamazoo and South Haven. Surveys are being made to improve the alinement and grade of 30 miles of the main line. S. J. Dunkley is Pres., South Haven, Mich.; Dana P. Smith, Paw Paw, is Ch. Engr.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—The contract for grading this line from Tracy City, Tenn., to the Nunley Ridge Coal Co.'s property at Pryor Ridge, about five miles, has been awarded to TONEY & LAWLER, of Chattanooga, Tenn. Hunter McDonald is Ch. Engr., Nashville, Tenn.

NOVA SCOTIA EASTERN.—Survey parties are running lines for this proposed railway. A party in charge of Lewis Whitman, C. E., of Annapolis, has been started out from Dartmouth, N. S. This party of surveyors will work along to Cole Harbor, thence to Lawrencetown, and to Musquodoboit Harbor, and thence up the Musquodoboit River. The second party is in charge of J. J. Taylor, C. E., of Truro, N. S., and they have commenced work at Guysborough. From that place they will follow along the Salmon River, and come out at Cross Roads Country Harbor. The third party is in charge of W. A. Hendry, of Halifax, and these surveyors will examine the various routes, starting at Sunnybrae, Pictou County. This party will proceed down the St. Mary's River to connect with the second party at Cross Roads, Country Harbor. The surveys are under the direction of R. McColl, Provincial Engr., Halifax, N. S.

PARAGOULD & MEMPHIS.—Walter E. Winn, Engr., Danville, Ill., announces the location of a 17-mile extension of this line from Cardwell, Mo., to Paragould, Ark., where the railroad connects with the St. Louis, Iron Mountain & Southern and the Cotton Belt Rys. F. Quinn, Cardwell, Mo., is Gen. Mgr.

PENNSYLVANIA.—Regarding the report that this company has a corps of engineers at work surveying the land between Winslow Junction, 25 miles below Camden, and Little Egg Harbor, with a view of constructing a direct 4-track line between the two points, Alex. C. Shand, Ch. Engr., Philadelphia, advises us that he has no knowledge of this project.

A branch will be constructed which will connect the Indiana branch with the Cherrytree & Dixonville branch. The new line will be built from Twolick, passing through

Hellwood, Shanktown, Starford and Dixonville, terminating at Clymer, where connection will be made with the Cherrytree & Dixonville Railroad, which is a branch of the Buffalo, Rochester & Pittsburg R. R. The New York Central will also have traffic rights over the new line. There are eleven large coal operations on the line of the new road, and both passenger and freight service will be installed.

*PENSACOLA, ALABAMA & WESTERN.—Bids are asked until noon, July 20 (postponed from July 10 as advertised on June 27), by the Interstate Contract Co., 224 Brent Bldg., Pensacola, Fla., for grading about 40 miles of railroad. Work to be graded covers 20 miles of the Andalusia Division, and 20 miles of the Atmore Division. This road is to connect Pensacola and Memphis, via West Point. J. I. Miller is Ch. Engr.

SAN FRANCISCO, IDAHO & MONTANA.—Contract for grading the first section of this railroad, between Caldwell, Idaho, and Snake River, 20 miles, has been let to W. P. CARTER, of Nampa, Idaho.

SOUTHWESTERN.—Contracts will be let at once for 22 miles of tracklaying, 800 ft. of bridging and 30 additional miles of grading, in Clay and Archer Counties, Tex. W. S. James, Ch. Engr., Henrietta, Tex.

TEXAS.—We are officially advised by the Railroad Commission of Texas that the following statements show the railroad mileage constructed in Texas during the past six months, and the mileage constructed during the year ending June 30, 1907; also the mileage that is under actual construction, or under contract for construction, and a list of the projects that have been chartered and are projected for construction in the near future.

Statement (approximate) of the railroad mileage constructed in Texas during the six months ending June 30, 1907:

	Miles.
Beaumont, Sour Lake & Western; between Beaumont & Houston	38.0
Burr's Ferry, Browndel & Chester; Rockland to Aldridge	7.7
Caro Northern; Caro to Mt. Enterprise	16.5
Chicago, Rock Island & Gulf; Irving to Carrollton	12.0
Kansas City, Mexico & Orient; Knox City north	6.0
Texas City Terminal; Texas City Junction to Santa Fe Junction	2.3
Trinity & Brazos Valley; Corsicana to Waxahachie	27.0
Weatherford, Mineral Wells & Northwest; Mineral Wells northwest	8.0
Wichita Falls & Northwestern; Wichita Falls to Red River	20.0
Total	137.5

Statement (approximate) of railroad mileage constructed in Texas during the year ending June 30, 1907:

	Miles.
Abilene & Northern; Abilene to Stamford	40.0
Beaumont, Sour Lake & Western; between Beaumont & Houston	63.0
Burr's Ferry, Browndel & Chester; Rockland to Aldridge	7.7
Caro Northern; Caro to Mt. Enterprise	16.5
Chicago, Rock Island & Gulf; Irving to Carrollton	12.0
Galveston, Harrisburg & San Antonio; between Cuero & Stockdale	26.6
Houston & Texas Central; between Mexia and Navasota	82.0
Houston Belt & Terminal; in Houston	8.0
Kansas City, Mexico & Orient; Knox City north	6.0
Pecos & Northern Texas; Canyon to Plainview	57.0
Texas Central; Stamford to Rotan	45.0
Texas City Terminal; Texas City Junction to Santa Fe Junction	2.3
Trinity & Brazos Valley; between Houston and Waxahachie	146.0
Wichita Valley R. R.; Weinert to Stamford	27.0
Weatherford, Min. Wells & N. W.; Mineral Wells northwest	8.0
Wichita Falls & Northwestern; Wichita Falls northwest	20.0
Total	567.1
Railroad mileage constructed and in operation in Texas on June 30, 1906, as shown by report of the Railroad Commission	12,058.3
Railroad mileage constructed on June 30, 1906, but not shown in said report	91.8
Total railroad mileage (approximate) constructed and in operation in Texas, June 30, 1907	12,717.2

Approximate statement of railroad mileage under construction or surveyed and under contract for construction on June 30, 1907:

	Miles.
Beaumont & Great Northern; Onalaska to Livingston	15
Burr's Ferry, Browndel & Chester; Aldridge to Browndel	23
Kansas City, Mexico & Orient; between Red River and San Angelo	152
North & South Texas; Stephenville to Hamilton	40
Pecos & Northern Texas; Plainview to Floydada	26
O'Connorsport, Rio Grande & Northern; O'Connorsport to Yoakum	75
Roscoe, Snyder & Pacific; Roscoe to Snyder	30
South Texas & Gulf; Artesia to Carrizo Springs	40
Southwestern Ry.; Henrietta to Archer City	30
Weatherford, Mineral Wells & Northwestern; between Mineral Wells and Graham	28
Wichita Falls & Southern; Wichita Falls south	20
Total	479

The above statements include only such railroads as are recognized by the Railroad Commission of Texas as common carriers. They do not include electric, interurban railroads, of which there are about 50 miles in operation in Texas, nor logging or private railroads, of which there are about 250 miles in Texas.

Statement of railroad mileage, in addition to that given above as being under construction, that is, chartered and projected for construction in Texas and considered to be the more substantial projects:

	Miles.
Burr's Ferry, Browndel & Chester; Browndel to Burkeville	24
Brazos Valley, Brenham & Gulf; Brenham to Waco	120
Ft. Worth & Rio Grande; Brady to San Antonio	150
Gulf, Brownwood & Cisco; Brownwood to Cisco	55
Gulf, Santa Fe & Northwestern; Brownwood to Texico	350
Houston & Brazos Valley; Anchor to Hempstead	75
Imperial Valley; Sugarland to Hempstead	40
Kansas City, Mexico & Orient; San Angelo to Presidio and Del Rio	472
Missouri, Kansas & Texas; Waskom to Colmesnell	150
O'Connorsport, Rio Grande & Northern; Yoakum to Smithville	70
Panhandle Short Line; Hereford to Stanton	210
Port Arthur & Houston Short Line; Port Arthur to Dumont	86
Roscoe, Snyder & Pacific; Snyder to State Line	70
Texas & Gulf; Center to Paris	120
Texas, Nex Mexico & Pacific; McKinney to Denton	30
Wichita Falls & Southern; between Wichita Falls and Cisco	105
Total	2,127

UNION PACIFIC.—According to estimates made for the new double track on the Union Pacific in Wyoming from Hanna to Rawlins, 40 miles, Wamsutter to Robinson, 20 miles and Rock Springs to Green River, 16 miles, the work will cost about $2,000,000. In addition a number of sharp curves in Wyoming are to be eliminated, which, with cut-offs to be built, will shorten the line considerably. The improvement between Hanna and Rawlins alone will cost $1,000,000. It is expected that contracts will soon be let and the work begun.

*VIRGINIA.—Bids are asked until noon, July 30, by Capt. R. H. C. Kelton, Q. M., Fort Monroe, for reconstructing and extending railroad track at Fort Monroe; also for supplying locomotive and cars.

WACO, HAMILTON & BROWNWOOD.—Charter has been applied for by this company, which proposes to build a railroad between Waco and Brownwood, 120 miles. Capital stock, $120,000. A preliminary survey will be made immediately. Construction will begin as soon as the survey is completed and a detailed map made. Officers elected are: James B. Baker, of Waco, Pres.; John L. Spurlin, of Hamilton, First Vice-Pres.; Brooke Smith, of Brownwood, Second Vice-Pres.; C. Sam Sanger, Third Vice-Pres. and Secy.; J. S. McLendon, of Waco, Treas. The general offices will be in Waco.

ELECTRIC RAILWAYS.

ITHACA, N. Y.—The Ithaca-Oswego Traction Co. has been incorporated in New York with $400,000 capital. Surveys have been made and right-of-way obtained. The line will be 33 miles long and will connect Ithaca, Brookton, Slaterville, Caroline, Willow Bridge, Jenksville, Weltonville, Flemingville and Owego, where it will pass through North Ave. and Main St. to the D., L. & W. Railroad station. The directors of the company are George R. Peck, Brookton; H. S. Finch, Richford; S. E. Banks and Sherman Collins, Ithaca; Charles D. Nixon, Owego; John F. and E. A. Delaney, Charles W. Munson and James G. Cozzens, Chicago. The main office will be in Ithaca. Mr. Collins is Pres. and Kirk Crandall is Ch. Engr., at Ithaca. Noted on June 13.

PORT CHESTER, N. Y.—The New York & Stamford Ry. Co. has applied to the Village Board of Trustees for right to double-track its line in Port Chester. E. R. Gilbert is Mgr., at Port Chester.

SAYVILLE (L. I.), N. Y.—The Islip Town Highway Commissioners have granted permission to the South Shore Traction Co. to have a public hearing at Sayville, to be held on July 22. The object of the hearing is to enable the South Shore Traction Co. to explain to the taxpayers and general public wherein it has been handicapped in its work of road building in this section of its proposed line, and also to ask for an extension of time.

CARMICHAELS, PA.—The Council of Carmichaels has granted a franchise to the Brownsville, Masontown & Smithfield Street Railway Co. By the terms of the ordinance, work on the road is to be begun within six months and completed within 18 months. The course of the road is not yet decided upon. Surveys, it is said, will be run from Masontown to Carmichaels, then by way of Jefferson to Waynesburg; also from Carmichaels through Clarksville and Zollarsville, thence via Ellsworth to the Monongahela River. It is the intention of the company eventually to reach Pittsburg. J. W. Sheldon is Pres., Waynesburg, Pa.; John C. Gwynne is Ch. Engr., Carmichaels. Noted on June 27.

PORTVUE, PA.—The Portvue Street Ry. Co. has accepted the ordinance recently passed by the borough granting the company the right-of-way over certain streets of the borough. This action now opens the way for active work in building this line, which will be the first transportation line between this borough and McKeesport. According to the announcement made before the Borough Council by the representatives of the company, work is to be started at once. A bridge will be erected across the Youghiogheny River. N. Robinson is Boro. Clerk; James F. Woodward is Pres. of the company.

ANNAPOLIS, MD.—The City Council has granted an amended franchise to the Washington, Baltimore & Annapolis Elec. Ry. Co. The promoters have accepted the franchise and have given the necessary bonds for the performance of the work. The principal change made in the old ordinance was that which gives the company exclusive use of the tracks to be laid by it over the route in the city for a period of three years from the passage of the ordinance, which means about two years of actual exclusive use. The former ordinance provided that any company accepting a franchise may operate cars over the route by complying with certain conditions and the franchise was limited to 25 years. Tracks are to be laid by Jan. 1, 1908, and cars are to be operated by April 1, 1908. George A. Craig is Supt. Construction, 801 Maryland Trust Bldg., Baltimore.

BALTIMORE, MD.—The United Railways & Electric Co. has executed a contract with the McCall's Ferry Power Co. by which the latter will furnish electric current for the railways here as soon as its plant is completed. The plant is being built on the Susquehanna River, at McCall's Ferry, Pa. It is expected to have the plant in operation by September, 1908, with a capacity of 100,000 HP.

FAIRMONT, W. VA.—The contract for the construction of the Fairmont & Mannington Elec. Ry., 15 miles in length, connecting Fairmont and Mannington, has been let to the BLODGET CONSTRUCTION CO., of Wheeling, W. Va. It is planned to have the line in operation in November. The construction will cost about $400,000.

TIFTON, GA.—The City Council has granted a franchise to L. P. Thurman, I. W. Myers, W. W. Banks, O. Daniel, J. E. Cochran, E. F. Bussey and J. J. L. Phillips, to construct, own and operate an electric railway through the principal streets of Tifton.

CORINTH, MISS.—We are officially advised that the Corinth & Shiloh Electric Ry. Co. will let contracts soon for building its line, which will be 22 miles long. It will extend from Corinth to Shiloh National Park on the Tennessee River. Abe Rubel is Pres.; W. J. Lamb, Vice-Pres., and N. T. Bynum is Secy., at Corinth. Right-of-way is secured and survey has been made. The company has secured permission to enter the Park. Contracts probably will not be let until company floats its first mortgage 6% gold bonds.

SEYMOUR, IND.—We are officially advised that the Seymour & Brownstown Interurban Motor Line Ry Co. has been incorporated in Indiana, with $10,000 capital. Surveys have not been made nor has right-of-way been secured yet. Motive power is to be gasoline. Company is not fully organized. "It is to be something new. The work will be experimental. Z. T. Sweeney, of Columbus, Ind., has obtained the patents which he proposes to develop. He has plenty of funds for it." There will be concrete tracks for motor cars. The line will be eleven miles long, connecting Seymour and Brownstown.

TERRE HAUTE, IND.—The Terre Haute & Merom Traction Co. has been granted franchises in Vigo and Sullivan Counties. The Sullivan County franchise provides that construction work shall be commenced by February, 1908, or the franchise will be forfeited. It is specified in the other franchise that work shall begin on the road not later than May 1, 1908, and that it shall be completed and cars running to and from Terre Haute and the south line of the county not later than Jan. 1, 1909. The company must file its acceptance of the franchise within 60 days. Noted on July 11.

SOUTH BEND, IND.—The Chicago, South Bend & Northern Indiana Ry. Co. has let the contract for the completion of the grading of its proposed electric line from South Bend to Laporte to A. E. YOUNG, of Vincennes, Ind. The company expects to have cars running between South Bend and Laporte between Jan. 1 and March 1, 1908.

GRAND RAPIDS, MICH.—The Grand Rapids Ry. Co. plans several extensions. Benj. S. Hanchett is Gen. Mgr.

Percy T. Cook, of this city, is seeking a franchise for a street railway.

SPRINGFIELD, ILL.—H. H. Colby, Pres. of the Springfield, Beardstown & Quincy R. R. Co., Petersburg, Ill., advises us that contracts for building this company's proposed line will be let after Aug. 1. C. W. Brown is Ch. Engr., at Jacksonville, Ill. The railroad will run from Springfield to Quincy, Ill., 106 miles. Surveys have been made and right-of-way secured in part. Motive power will be electricity. As previously noted, this company was recently incorporated in Illinois with $25,000 capital.

CHARLESTON, ILL.—The Charleston, Westfield, Marshall & Terre Haute Interurban Ry. Co. has been incorporated in Illinois to construct an interurban road from Charleston, Coles County, Ill., by way of Westfield, through the counties of Coles and Marshall to the Indiana state line, where it crosses the national road. The principal office is Marshall, and the capital stock nominally $5,000. The incorporators and first board of directors are: James Dawson, William B. Scholfield, Seymour Hurst, Norman Bennett, W. L. Biggs, M. L. Briscoe, W. R. Patten, T. M. Berkeley and E. T. Pinnell.

CAIRO, ILL.—The Cairo Terminal Traction Co. has been incorporated in Illinois, with principal office in Cairo. The road is to be constructed from Cairo to the north line of Pulaski County, Illinois. The incorporators and first board of directors are: L. E. Fischer, Danville, Gen. Mgr. of the Illinois Traction System; Dan Hogan, Mound City; Judge W. S. Dewey, D. H. Sawyer and H. F. Vogel, all of Cairo.

OSHKOSH, WIS.—In the circuit court on July 6 Judge Charles Burnell appointed Richard H. Hackett receiver of the Winnebago Traction Co., the corporation operating an interurban and city line in Oshkosh, Omro and Neenah, valued at $1,000,000. Mr. Hackett is Pres. of the company.

FORT WORTH, TEX.—We are officially informed that E. C. Macy, Supt. of Const. for Stone & Webster Engineering Co., at Fort Worth, has made preliminary surveys for the Northern Texas Traction Co. for the proposed line from Fort Worth to Cleburne, 30 miles. Location has not been decided. The Northern Texas Traction Co. operates 67 miles of railway, connecting Fort Worth and Dallas, and ten miles of line in Dallas.

PARIS, TEX.—It is announced that E. H. R. Green, Pres. of the Texas & Northern has decided to convert this road, from Paris to Ennis, Tex., 124 miles, from a steam into an electric line using third-rail system. A branch is to be built from Greenville to Dallas, Tex., 30 miles. The company has no bonded debt. L. Wells, Terrell, Tex., is Ch. Engr.

ENID, OKLA.—The Enid, Oklahoma & Northern Interurban Road Co. Oklahoma City Interurban Co. has been which proposes to build an interurban line 100 miles long from Enid to Oklahoma City, through the counties of Garfield, Kingfisher, Logan, Canadian and Oklahoma, has been granted a charter. The estimated cost of the line is $10,000 a mile. The number of shares of the road are at Waukomis. Capital stock is $200,000. The stockholders are: A. N. Brittan, Pres.; J. A. Butler, Treas.; Charles Moore, Secy.; Dr. F. S. Scott, H. Drew and J. B. Campbell, of Waukomis; and Valentine Johnson, of Enid.

CANON CITY, COLO.—The Canon City, Pueblo, La Junta Railway & Power Co. has been incorporated for the purpose of building street railways in towns and cities in Freemont, Bent, Otero, Pueblo and Prowers Counties. The capitalization is $[illegible],000. The incorporators are: Andrew Bellwood, Ind.; Francis James and Perry Bebmer, of Ordway; George Kendall, of Pueblo; Thos. J. Stanley, of Manzanola; Daniel W. Sheldon, of Manzanola; Chas. H. Buckley, of La Junta; Claude Mittingly, of Ordway; and W. E. Mount, of Pueblo. The general offices of the company will be located in Pueblo, Colo.

SILVER CITY, N. MEX.—A. D. Coleman, of Albuquerque, N. Mex., has perfected plans for the Forest Power Co. for an electric plant, transmission line and an electric railroad from Silver City to adjoining mining camps.

SEATTLE, WASH.—Articles of incorporation have been filed for the Puget Sound International Railway & Power Co., of Portland, Me. Capital, $2,250,000. The incorporators are J. H. Drummond, G. M. Drummond, W. G. Chapman, Gertrude M. Horne, all of Portland, Me.; Benjamin Joy, J. S. Lovering, P. L. Warren, A. K. Todd and J. E. Rousmaniere, all of Boston, Mass. The object of the corporation is stated to be to build and operate a line of railway between Seattle, Everett, Bellingham and British Columbia.

WALLA WALLA, WASH.—The Walla Walla Fair Association will apply to the City Council for the street railway franchise.

TACOMA, WASH.—City Council has granted permission to the Tacoma Ry. & Power Co. to build extensions over certain streets. W. S. Dimmock is Mgr., Tacoma.

RED BLUFF, CAL.—It is announced by BAYLES BROS., who have the contract for grading the Northern Electric Co. from this city to Chico, that operations will be resumed in this section about Sept. 1st. C. S. Compton is Ch. Engr., Chico.

VANCOUVER, B. C.—Maurice M. Johnson, Consult. Engr. of the Dominion Copper Co., has ordered a survey from the company's mines to the smelter at Boundary Falls for an aerial tramway about five miles long. Cost estimated at $100,000.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

WATERVILLE, ME.—The Eaton & Wyman water-power privilege on the Sebasticook River near Fort Hill cemetery in Winslow has been purchased by the management of the Augusta & Waterville Electric Ry. Co. and contract for the erection of a big granite dam will be awarded soon. The dam and power station to be erected will cost $130,000, and is to be completed before Nov. 1, at which time the rails of the new road will be ready for traffic between this city and East Vassalboro.

SPRINGFIELD, MASS.—The Springfield Gas Light Co. has applied to the State Gas and Electric Light Committee, for authority to issue $350,000 of new stock to pay for new construction, extensions, permanent improvements, including extension of mains, the acquisition of land, purifying house, purifying apparatus, and other purposes.

The United Electric Co. has awarded a contract to W. H. FALVEY, of this city, for the construction of a 1-story power-house, to cost about $15,000. W. L. Mulligan, Springfield, Mass., is Mgr.

ARLINGTON, MASS.—The Board of Selectmen has awarded a 20-year contract to the EDISON ELECTRIC ILLUMINATING CO., Boston, Mass., for street lighting and lighting the municipal buildings. The long term contract secures a reduction of 20% from the rates on a 1-year contract.

NEW YORK, N. Y.—The following bids were received by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in addition to and alterations in Public School No. 13, on west side of Anderson St., between Pennsylvania and Clifton Aves., Rosebank, Boro. of Richmond: Commercial Construction Co., 114 East 28th St., $10,078; Griffin & Co., 150 Nassau St., $10,339; T. Frederick Jackson, 592 Columbus Ave., $10,297.

*LEBANON, PA.—Bids are asked until noon, Aug. 31, by the Police Committee for lighting the streets of Lebanon with 150 or more 2,000 c. p. arc lamps, for either a period of one year or a period of five years.

NEW CASTLE, PA.—The Pennsylvania R. R. will build a round house and private electric plant at Lawrence Junction, near this city. Cost, $250,000. Thomas Todd, Pittsburg, Pa., is Ch. Engr.

WASHINGTON, D. C.—The U. S. Government has awarded contract to JOHNSON BROS., 1311 F St., N. W., for the construction of 1-story fireproof power-house 26x26 ft., and 2-story addition, 22 x 31 ft., on Water St., between 12th and 13th Sts. Bids are asked until July 20 by Elliott Woods, Supt. U. S. Capital Bldg. and Grounds, for weather-proof and rubber-covered electric wires for House of Representatives Office Building; materials to be delivered on reels at the building.

WESTPORT (Baltimore post-office), MD.—At the annual meeting of the Consolidated Gas, Electric Light & Power Co., plans were announced for erecting an addition to the Westport electric power plant, which provides for a structure large enough to provide for 75,000 HP. One-third of the structure will be erected this year, and a turbo-generator set of 7,500 HP., with boilers and necessary equipment, will be installed. Alton S. Miller is Gen. Mgr., Baltimore.

RICHMOND, VA.—The following improvements are contemplated for the city gas works: Apparatus and buildings to enclose them necessary to effect complete separation of coal and water gas plants, so that respective gases can be condensed, purified and metered separately; installation of 10-ft. set standard Lowe water-gas apparatus, capacity of 1,250,000 cu. ft. of gas daily; installation condensing plant complete, with necessary buildings for coal gas, capacity of 1,600,000 cu. ft. of gas daily; increase capacity of present purifying apparatus and buildings so as to provide for purifying 1,600,000 cu. ft. of coal gas and 2,500,000 cu. ft. of water gas daily; gas mains to be installed: 20-in. main from 14th and Broad Sts. to 17th St., 12-in. main from 17th and Broad Sts. to Venable St., 12-in. main from 17th and Venable Sts. to 20th St., and make all cross-street connections, 10-in. main from Sixth and Cary Sts. to Lombardy St., 6-in. main from 25th and Broad Sts. to Venable St., 6-in. main from 29th and Marshall Sts. to Venable St.; necessary underground tanks for separate tars, gas, steam, water, tar and drainage pipe connections, also photo-metrical apparatus of approved type complete; install complete coal-gas plant of 1,600,000 cu. ft. capacity daily; replace 400,000-cu. ft. gas-holder at lower works with modern holder of 600,000 cu. ft. capacity. In order to obtain best and most economical results while extensions are being made the improvements should be completed in order enumerated. All must be executed so as not to cause any temporary suspension in operations of works or shortage in supply of gas on hand necessary to maintain sufficient pressure on street mains and to meet demands of consumers. W. P. Knowles, City Hall, is Supt. of the city gas works.

COLUMBIA, S. C.—It is reported that the Savannah River Power Co., capitalized at $8,500,000, will develop the Calhoun Falls property with 35,000 HP. during this season; Cherokee Falls, on the Savannah River, 10,000 HP.; Hatton Shoals, on the Tugaloo River; Broad River, in Georgia, at Anthony Falls, near Elberton, 10,000 HP., and at Gregg Shoals, about 8,000 HP. H. A. Orr is Pres.

MILLEN, GA.—J. B. McCreary, Atlanta, Ga., has submitted plans, specifications and cost of installation of electric light plant, water-works and sewerage system. H. Q. Bell is Mayor.

NEWNAN, GA.—City will expend $8,000 in building and equipment of fireproof power station, 70 x 80 ft. S. W. Allen is Engr.-in-Charge; H. H. North is Chn.

HUNTSVILLE, ALA.—Plans to duplicate the power plant of the Huntsville Railway, Light & Power Co. have been submitted to T. C. Dupont, Pres., and upon his approval the company will advertise for machinery. The directors at their last meeting adopted a resolution providing for the doubling of the plant here at a cost of from $30,000 to $35,000.

ABERDEEN, MISS.—It is reported that H. E. Reynolds, of Aberdeen, and associates will build a large water-power electrical plant to transmit power by electricity for industrial purposes, principally at first for a bicarbide factory which they propose to establish. Those interested in the proposition include Walter Weaver, W. C. Banks, C. F. Sherrod and John R. Maxwell, of Columbus, Miss., and H. J. Jennings, of Water Valley, Miss.

LAWRENCE, TENN.—Walter G. Kirkpatrick, of Jackson, Miss., is making plans, it is reported, for municipal power plant comprising concrete dam, turbines, transmission and distribution lines, arc lamps, dynamos, electric pumping, steel tower and tank, water mains. The capacity will be about 200 HP.

LEXINGTON, KY.—Central Kentucky Natural Gas Co., John Tonkins, Gen. Mgr., will erect power pump-house in gas fields, expending about $70,000.

COLUMBUS, OHIO.—Bids are asked until July 30 by the Board of Trustees of the Columbus State Hospital for furnishing and installing complete an engine, dynamo, switchboard and feed wires in the power-house.

TOLEDO, OHIO.—Bids are asked until July 26 by the County Auditor for all labor and material required in building a heating and power-house, including stack for same, at the Lucas County Infirmary; also at the same time for installing in the heating and power house, boilers, dynamos, machinery and appurtenances; conduits and piping outside of said power house. Cost, $27,000. Edward Bayer is Arch., 1630 The Nicholas Bldg.; J. W. Kerr is Chn. County Comrs.

The Central Heating and Lighting Co., Jefferson Ave. and Michigan St., has decided to double its capacity for both heating and lighting. Grant Miller, Toledo, is Ch. Engr.

FRANKLIN, IND.—The Franklin Water, Light & Power Co. is arranging to have the following new equipment installed: A new engine direct-connected to a 250-KW. 3-phase alternator, a 125-KW. 3-phase alternator to take place of present machine and belted to the engine already installed. One 75-light transformer will take place of direct-current arc machine, when all arc lamps will be changed to alternating-current series enclosed lamps. J. B. Rogers is Mgr.

KOKOMO, IND.—The Kokomo Electric Co. has increased its capital stock from $12,000 to $13,000. The purpose of the increased capital is to enlarge the plant. Charles T. Byrne is Pres.; J. P. Grace, Secy.

HOUGHTON, MICH.—Plans have been prepared by E. T. Sykes, Electrical Engr., of Minneapolis, for constructing a municipal lighting plant here.

MIDLAND, MICH.—We are officially advised that surveys are being made by H. von Schon, Consult. Engr., of Detroit, Mich., of the Chippewa River, for the purpose of planning several power developments.

NEW HAMPTON, IOWA.—The contract for constructing a power plant for the city has been let to SHEPARD & HUTTON, of New Hampton, their bid being $8,611.

ARMOUR, S. DAK.—The contract for installing a municipal electric light plant at Armour has been awarded to JOHN ABSHER, Wagner, S. Dak. The building will be of cement blocks, and the plant is to be ready for operation by the middle of October.

SIOUX FALLS, S. DAK.—H. M. Byllessby & Co., 123 Monroe St., Chicago, Ill., have been retained to make plans for the reconstruction and extension of existing hydraulic plants of the Sioux Falls Light & Power Co. About $15,000 will be expended in rebuilding the present dams and in adding new equipment. J. J. Bennett, Sioux Falls, is Pres.

FERGUS FALLS, MINN.—Articles of incorporation of a new power development company, to be known as the Otter Tail Power Co., have been filed with the Register of Deeds in this city. The company is incorporated for $100,000, and will build a dam about four miles below this city. The incorporators are Vernon A. Wright, F. G. Barrows, Fred Leffler and E. W. Anderson.

KANSAS CITY, MO.—Missouri Warehouse Co. proposes to establish a light and power plant. John P. Wagner, Pres., 619 New Nelson Bldg., is Consult. Engr. The plans will include an expenditure of $2,000,000 and erection of general storage, cold storage, manufacturing and power-house buildings, to be 100 x 100 ft., six stories high; 360 x 485 ft., six stories; 117 x 180 ft., six stories; 125 x 150 ft. The general storage building will have capacity of 1,000,000 sq. ft., cold storage, 2,137,500 cu. ft., and manufacturing building, 132,678 sq. ft.

PINE BLUFF, ARK.—Pine Bluff Light & Water Co. will erect proposed light and water plant. C. L. Crump, Engr., is making surveys, and will prepare plans and specifications for plant soon. F. G. Bridges is Pres. of the Pine Bluff Light & Water Co., which has awarded contract to the HOT SPRINGS CONCRETE CO., Hot Springs, Ark., for erection of 1,500,000-gallon concrete storage reservoir.

SAN ANGELO, TEX.—The San Angelo Gas Co. will improve plant, including erection of building 30 x 70 ft., 20 ft. high. The cost of building and equipment, including mains, will be $50,000. Product, oil and coke gas for fuel and lights. Capacity, 100,000 cu. ft. per 24 hours. C. B. Metcalfe is Mgr.

OKLAHOMA CITY, OKLA.—The Oklahoma City Ry. Co. has decided to erect a power-house at a cost of about $175,000. The equipment will consist of four 400-HP. boilers and two 1,600-HP. engines. The engines will be direct-connected to generators of 21,200 KW. capacity. Provision will be made to double the capacity of the power-house at any time, and with the additional installation provided for it is designed to handle the Oklahoma City & Guthrie street railways in connection with the interurban line. Charles W. Ford, Oklahoma City, is Gen. Supt.

NORTH SYDNEY, N. S.—The Cape Breton Electric Co., Ltd., proposes to let contracts during the next four weeks for the erection of a transformer house and a brick sub-station in North Sydney. Recently contracts have been awarded for the following equipment: To the CANADIAN GENERAL ELECTRIC CO., for two 250-KW., 2 to 3-phase, high-tension, oil-cooled transformers, 2,200 to 22,000 volts; two 250-KW. oil-cooled transformers, 3 to 2-phase, 22,000 to 2,200 volts; one 300-KW. synchronous motor coupled to one 300-KW. 500-volt railway generator, with necessary switching apparatus; to the EUGENE F. PHILLIPS ELECTRICAL WORKS, of Montreal, for 45 miles No. 4 semi-hard drawn copper wire; to C. S. KNOWLES, Boston, Mass., for necessary insulators and hardware for 14-mile transmission line between the main generating station in Sydney, and the sub-station in North Sydney. A. F. Townsend is Mgr., Sydney.

HAMILTON, ONT.—Bids are asked until Aug. 1, by the Lighting Committee of the Board of Works, for electric and gas lighting.

LONDON, ONT.—The WEBER GAS ENGINE CO. has the contract for a complete power plant installation for the McClary Mfg. Co., London, Ont. This includes a 250-HP. vertical gas engine with producer gas plant and generator.

MEDICINE HAT, ALTA.—The rate-payers have carried a by-law to provide $20,000 to the natural gas system. W. Cousins is interested.

WINNIPEG, MAN.—The City Council has decided to instruct the Winnipeg Electric Co. to proceed with the construction of nine proposed branch liens at once. Wilford Phillips is Gen. Mgr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

MACHIAS PORT, ME.—The contract for constructing the steel draw for bridge between East Machias and Machias Port has been let to the AMERICAN BRIDGE CO., for $3,225.

PITTSFIELD, MASS.—It is proposed to build concrete bridge over outlet near Pontoosuc Lake dam. Estimated cost, $5,000. Arthur B. Farnham, of Pittsfield, is Engr.

NEW YORK, N. Y.—Bids are asked until noon, July 30, by George Cromwell, Pres. Boro. of Richmond, for constructing a pile and timber bridge across Fresh Kills Creek at Union Ave.; and furnishing and driving and capping nine piles at Bay View Ave. crossing of Lemon Creek, Princes Bay; and furnishing and driving about 180 small piles at the Fresh Kills road crossing of Mill Creek, Richmond Valley.

PHILADELPHIA, PA.—The Council Committee on Surveys June 26 approved ordinances for constructing and repairing bridges in different parts of the city as follows: Widening Chestnut St. Bridge over Schuylkill River, raising approaches and building bridge over 30th St., $290,000; Belmont and Girard Ave., over Pennsylvania R. R., $85,000; Columbia Ave., over Connecting Ry., $54,100; Wyoming Ave., over Frankford Creek, $140,000; Twelfth St., under Connecting Ry., $70,000; to widen Chestnut St. Bridge, raise approaches and build bridge over 39th St., $240,000; Belfield Ave., under Tabor branch Philadelphia & Reading Ry., $50,000; Large St., under Frankford branch Philadelphia & Reading Ry., $40,000; 29th St. and Montgomery Ave., over Connecting Ry., $82,000; 66th Ave., North, over North Penn Ry., $26,000; Woodland Ave., over Cobb's Creek, inter-county bridge, $36,000; 54th St., over Philadelphia, Baltimore & Washington R. R., $44,000; Ontario St., under Richmond branch Philadelphia & Reading Ry., $40,000; Montgomery Ave., over Connecting Ry., $64,000; Roberts Ave., over Connecting Ry., $40,000; 61st St., over Baltimore & Ohio R. R., $25,000; 62d St., over Philadelphia, Washington & Baltimore R. R., $50,500. Of the total bridge cost the city will pay $1,000,000, the railroads concerned the remainder.

KNOXVILLE, PA.—The County Commissioners have let contract for constructing 87-ft. span iron bridge, 18 ft. wide, to the LANE BRIDGE CO., of Painted Post, N. Y. Work is exclusive of the masonry abutments, which contract has been let to JAMES CRAWFORD, of Blossburg, Pa., at $5.73 per cu. yd.

HARRISBURG, PA.—The following bids were received July 5 by the Board of Public Works for reconstruction of Mulberry St. bridge of reinforced concrete: McCormick & Co., Philadelphia, $260,046; Coder & Miller, Harrisburg, $290,486, and Scofield Co., Philadelphia, $475,558. M. B. Cowden is City Engr.

SALISBURY, MD.—The New York, Philadelphia & Norfolk R. R. Co. has purchased 89 ft. additional across Humphreys mill pond and contemplates filling in pond with exception of 40 ft., which will be used as channel and bridged by steel truss on stone abutments. W. A. Patton, 26 South 15th St., Philadelphia, Pa., is Pres.

CHILHOWIE, VA.—Bids are asked by H. L. Bonham, D. C. Gollehon and W. G. Baylor until July 22 for construction of steel wagon and footbridge across Holston River.

FAIRMONT, W. VA.—Marion County and the Fairmont & Clarksburg Traction Co. will build bridge, the latter having agreed to give $18,000 toward cost of construction.

DURHAM, N. C.—Bids are being received by the Board of County Commissioners, A. D. Markham, Chn., it is reported, for constructing 90-ft. span double bridge one mile from Durham.

VANCEBORO, N. C.—Bids are asked by the Board of County Commissioners, C. E. Foy, Chn., until Aug. 5 for constructing steel highway drawbridge over Swift Creek at Vanceboro and over Brices Creek, near Newbern, N. C. Matthew & O'Brien, Wilmington, N. C., are Engrs.

BESSEMER, ALA.—The Atlanta, Birmingham & Atlantic R. R. Co. has made an agreement with the City Council to construct 30-ft. arches on Clarendon, Berkeley and Arlington Aves., and from 40 to 50-ft. spans across Carolina and Alabama Aves. Alex. Bonnyman, Atlanta, Ga., is Ch. Engr.

NORFIELD, MISS.—Bids are being received by the Board of Supervisors for construction of steel bridge across Bogue Chitto River at Norfield. E. P. Alsbury & Son are Archs.

SUNNYHILL, LA.—Bids are asked until August 2 for construction of three steel bridges. L. P. Parker is Secy. Police Jury of Washington Parish.

ATHENS, OHIO.—The CAPITOL CONSTRUCTION CO., 423 Range Bldg., Omaha, Neb., has secured contract for constructing 2-span steel bridge, at $11,780. E. R. Walker is County Audr.

JACKSON, OHIO.—Bids are asked until 1 p. m., Aug. 5, by W. J. Shumate, County Audr., for constructing six concrete bridges in Jackson County.

Bids are asked until 1 p. m., Aug. 15, for constructing two bridges. J. W. Turner is County Surv.

NEWARK, OHIO.—Bids are asked by the County Commissioners until 1.30 p. m., July 22, for construction of three steel bridges and several concrete culverts. J. L. Gilpatrick is County Surv.

CHARDON, OHIO.—Bids are asked until July 29 by the Commissioners of Geauga and Cuyahoga Counties, at Chardon, for furnishing material and constructing and repairing various bridges and the abutments at the iron bridge on Bainbridge Road. Julius C. Dorn is Clk., Cuyahoga County Comrs.

COLUMBUS, OHIO.—Bids are asked until Aug. 5 by the County Commissioners for furnishing material and doing the following work: Eng. estimate No. 753, constructing approaches, etc., to Chillicothe Pike bridge over Big Walnut Creek in Hamilton Township; No. 779, superstructure; No. 780, substructure of Pegg bridge on west side of Olentangy River, Clinton Township, plans "A"; No. 781, superstructure of Pegg bridge, plan "B"; No. 782, substructure of Pegg bridge, plans "B"; No. 783, reinforced concrete arch bridge, Luten's patent for the Pegg bridge, plans "C." W. C. Cussins is Co. Audr.

ST. CLAIRSVILLE, OHIO.—Bids are asked by A. W. Beatty, County Audr., until July 22, for constructing superstructure, substructure and concrete culverts for county bridges.

HAMILTON, OHIO.—Bids are asked by the Board of County Commissioners until 10 a. m., July 30, for constructing superstructure of bridge across Nine Mile Creek, Christopher Pabst is County Audr.

TROY, OHIO.—Bids are asked by the Board of County Commissioners until 10 a. m., Aug. 5, for constructing superstructure of steel automatic swing bridge over Miami and Erie Canal, at Water St., Troy. E. E. Pearson is County Audr.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Aug. 3, for constructing concrete abutment in Strongville Township. A. B. Lea is County Surv.

Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Aug. 10, for constructing steel concrete bridge and concrete arch culvert, Parma Township. A. B. Lea is County Surv.

PORTSMOUTH, OHIO.—The County Commissioners have let contract for constructing 40-ft. span steel bridge across Pine Creek, at Thompson's Ford, Bloom Township, to the CAPITAL CONSTRUCTION CO., of Columbus, Ohio.

PORTSMOUTH, OHIO.—The County Commissioners have let contracts to the COLUMBUS BRIDGE & IRON CO. for constructing bridge across Pond Run, 10 miles below Portsmouth, and bridge across Pine Creek, at Clinton Furnace, for $1,975 and $1,175, respectively.

MARION, OHIO.—The County Commissioners have let contract for constructing superstructure of the Prendergas bridge to the CENTRAL CONCRETE CO., of Canton, Ohio. A. J. BRADY has secured contract for constructing the substructure.

EVANSVILLE, IND.—The County Commissioners have let contracts to BENNETT WHITEHEAD for constructing five concrete bridges, three in Scott, one in Center and one in Bayou Township.

ROCKPORT, IND.—Surveys are being run for constructing bridge across Ohio River. A. H. Kennedy, of this city, is interested.

BYRON CENTER, MICH.—Bids are asked until 2 p. m., July 20, for constructing two bridges in Byron Township. W. F. Moses is Highway Comr.

*GLENCOE, ILL.—Bids are asked until July 31 by the Commissioners of Cook County, Chicago, for constructing a 40-ft. span reinforced concrete arch bridge at Glencoe.

CLINTON, ILL.—The Highway Commissioners have decided to build 75-ft. steel bridge over Ten-Mile Creek, west of Clinton.

*EAST ST. LOUIS, ILL.—Bids are asked by the Board of Local Improvements until noon, Aug. 1, for constructing the Broadway viaduct. W. J. Crocken is City Engr.; Carl Gaylor, 900 Wainwright Bldg., St. Louis, Mo., is Consult. Engr.

TOWANDA, ILL.—BURNHAM & IVES have been awarded contract for bridge across Money Creek, Money Creek Township, two miles north of Towanda.

MILWAUKEE, WIS.—The Board of Public Works has let contract for constructing concrete bridge across the Kinnickinnic River at Third Ave., Fourteenth Ward, to the HANSEN CEMENT CO., for $4,900.

MENOMINEE, WIS.—The city will probably build bridge across Cedar Creek before November 15, at which time contract between the city and the Wisconsin Power Co. expires. Estimated cost, $4,000.

WICHITA, KAN.—Bids are asked until July 29 by the Board of County Commissioners for furnishing material and constructing reinforced concrete bridge over Arkansas River at Douglas Ave., Wichita. Claude N. Cartwright is County Clk.

IOLA, KAN.—The City Council has let contract for constructing concrete bridge over Coon Creek at North Jefferson St. to the TOPEKA BRIDGE CONSTRUCTION CO., of Topeka.

AURORA, MO.—Bids are being received by J. F. Ragsdale, City Clk., for constructing concrete culvert 320 ft. long.

SPRINGFIELD, MO.—Two culverts and one 60-ft. span concrete or steel culvert will be constructed by Greene County. W. D. Cloud is County Clk.

MACON, MO.—Three steel bridges will be erected by Macon County. N. M. Moody is County Clk.

BRYAN, TEX.—The Commissioners Court has awarded contract for building iron bridge across Brazos River at Koppe's Ferry to the MISSOURI VALLEY BRIDGE CO., of Kansas City, Mo., for $17,190.

PORTLAND, COLO.—Bids are asked by T. W. Jaycox, State Engr., at Denver, until noon, Aug. 2, for constructing steel or concrete bridge across Arkansas River, at Portland.

STANWOOD, WASH.—Shonomish & Island Counties are planning to repair bridge between the mainland and Camano Island, near Stanwood.

*SACRAMENTO, CAL.—Bids are asked until 11 a. m., July 25, by the Board of Supervisors of Sacramento County for con-

structing a steel truss and reinforced concrete bridge, consisting of two spans, each 200 ft. long, and one span 70 ft. long; concrete piers and foundations, and 480 lin. ft. of reinforced concrete; bridge designed with 40-ft. spans. The bridge is to be constructed over the American River at Fair Oaks, Sacramento County. W. B. Hamilton is Clk.

OAKLAND, CAL.—Bids are asked by John P. Cook, Clk. Bd. County Supervs., until 10 a. m., July 22, for constructing bridge on County Road No. 800.

SAN DIEGO, CAL.—The Street Commissioners are preparing to construct five reinforced concrete bridges at C, D, F, G and I Sts. Estimated cost, $50,000. G. A. D'Hemecourt is City Engr.

SAN JOSE, CAL.—Bids are asked until July 22 by the Board of County Supervisors, Henry A. Pfister Clk., for constructing concrete bridge over Wildcat Creek at Fruitvale Ave.

RED BLUFF, CAL.—The Supervisors have let contracts to PAUL & FOSTER for constructing Upper Cold Fork, Lower Cold Fork and Cold Fork bridges, for $3,987. A. S. CRANER secured contract for constructing bridge on Tuscan Springs Road.

RENO, NEV.—Bids are asked by the Board of County Commissioners, W. A. Fogg, Clk., until noon, July 29, for constructing abutments for two steel bridges.

OGDEN, UTAH.—Bids are asked by the City Council until 8 p. m., July 22, for constructing reinforced concrete arched bridge near mouth of Ogden Canyon. A. F. Parker is City Engr.

MOSCOW, IDAHO.—The contracts for bridges across South Palouse Creek and Bear Creek at Kendrick, Four Mile Creek at Viola and Little Potlatch Creek, has been awarded to ELI H. HARRIS, of Moscow.

TROY, IDAHO.—Bids are asked by the Board of County Commissioners, Axel P. Ramstedt, Clk., until July 19, for constructing two bridges across Cow Creek in Road District No. 28.

WEISER, IDAHO.—H. W. Bond is preparing plans for constructing county bridge across Little Weiser River in Road District No. 11.

CALDWELL, IDAHO.—The City Council is considering building two concrete and iron bridges over Indian Creek, on Bank and Kimble Aves. Estimated cost, $15,000.

HALIFAX, N. S.—The LINDSAY CONSTRUCTION CO. has secured contract for constructing steel bridges at Halifax for Mackenzie & Mann on the Halifax & Southwestern Ry.

STEPHEN, ONT.—The ONTARIO BRIDGE CO. has been awarded the contract for constructing steel bridge over Aux Sable River, between Stephen and McGillivray.

BRANDON, MAN.—The ROYAL ARTIFICIAL STONE CO., Guelph, Ont., has been awarded contract for laying cement walks and building cement bridge at Brandon.

SHELLMOUTH, MAN.—Bids are asked by Fred. Gelinas, Secy. Dept. Pub. Wks., until Aug. 3, for constructing steel superstructure for bridge across Assiniboine River. J. G. Sing, Confederation Life Bldg., Toronto, Ont., is Resident Engr.; A. R. Dufresne, Winnipeg, Man., is Resident Engr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids as follows were received by C. B. J. Snyder, Supt. School Bldgs., on July 15, for general construction, etc., of new Public School No. 56, on corner of Elm St. and Orchard Ave., Richmond Hill, Boro. of Queens: F. T. Nesbit Construction Co., 116 Nassau St., $175,729; Thomas McKeown, 512 West 110th St., $191,700; William Werner, 892 Forest Ave., $184,460; Patrick Gallagher, 1183 Broadway, $183,953; Charles H. Peckworth, 415 Hudson St., $189,662; James McArthur, 22 Ormond Pl., Brooklyn, $187,000; Thomas Cockerill & Son, 147 Columbus Ave., $183,300.

Bids were received at the same time for the general construction, etc., of new Public School No. 93, on the corner of Herkimer St. and New York Ave., Boro. of Brooklyn: Richard E. Henningham, 1 Madison Ave., $211,598; Kelley & Kelly, 45 East 42d St., $217,359; Patrick Gallagher, 1183 Broadway, $205,000; John Auer & Son, 99 Broadway, Brooklyn, $214,670; William Werner, 892 Forest Ave., $219,880; J. & S. Moreland, 1910 Park Ave., $233,900; F. T. Nesbit Construction Co., 116 Nassau St., $218,748; William H. Luth Co., 646 Sterling Pl., Brooklyn, $219,100; George F. Driscoll, Richmond, S. I., $216,886; James McArthur, 22 Ormond Pl., Brooklyn, $222,894.

NEW YORK, N. Y.—A 12-story store and office building will be erected on the site formerly occupied by the Manhattan Eye and Ear Hospital at the corner of Park Ave. and 41st St. The building will be built by One Hundred and Three Park Ave. Co., R. F. Easton, Pres., and S. O. Miller, Vice-Pres. The structure will occupy a plot 99 × 105 ft., the longer dimension on the street, and will cost about $900,000. The old hospital building has been torn down, and excavation will be begun within a few days. Mulliken & Moeller, 7 West 38th St., New York, are Archs.

Bids are asked by the Park Board until 3 p. m., July 25, for all labor and materials required for the erection of a new continuous skylight in the main roof of the east wing, the enlargement of the three dome lights over the Hall of Sculpture and the alteration of the cornice in the south gallery on the second floor of said east wing of the Metropolitan Museum of Art, located in Central Park, on the west side of Fifth Ave., opposite 82d St. Moses Herrman is Pres.

Bids are asked by the Board of Health, until 9.45, Aug. 6, for furnishing all labor and furnishing and erecting all materials necessary or required to erect and complete a fireproof office building at Willoughby and Fleet Sts., Brooklyn. Dr. Thomas Darlington is Pres.

NEW YORK, N. Y.—Plans have been made by Harde & Short, Archs., 3 West 29th St., for a 12-story apartment house, to be erected at the corner of Seventh Ave. and 58th St. Contract for construction has been let to the HEDDEN CONSTRUCTION CO., 1 Madison Ave., New York.

SCHENECTADY, N. Y.—A 4-story building is to be erected in Clinton St., between State and Smith Sts., by the Schenectady Illuminating Co. and the Mohawk Gas Co., jointly. C. S. Van Dyke is Supt. of the Illuminating Co.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 2 p. m., July 29, for labor and material required (except for plumbing work) for the erection and completion of a public bath building at Nos. 5 and 7 Rutgers Pl.; also for labor and materials required for the installation of plumbing work in a public bath building to be erected at Nos. 5 and 7 Rutgers Pl., Boro. of Manhattan.

JERSEY CITY, N. J.—Bids received by the Board of Hospital Trustees for a powerhouse, laundry, stable and helps' quarters and mortuary chapel and morgue for the new hospital, were as follows: The Thompson-Starrett Co., 49 Wall St., New York, N. Y., was the only firm submitting separate bids for each building. They were as follows, being fireproof and semi-fireproof construction: Power-house and laundry, $72,000, $68,000; stable and helps' quarters, $54,000, $51,500; morgue and chapel, $21,000, $21,600; total, $147,000, $141,100. The John H. Parker Co., 225 Fourth Ave., New York, N. Y., $149,364 for the entire work, fireproof construction, no bid on semi-fireproof construction. Other bids for semi-fireproof construction were for the entire work: M. T. Connolly Contracting Co., 242 17th St., $140,437, and Jos. Jewkes & Sons Co., $142,000; the Universal Fireproof Construction Co., 11 Broadway, New York, N. Y., bid $22,150 for the power-house, $23,450 for the stable, and $5,300 for the morgue, a total of $50,900, but does not include the heating, lighting and plumbing, or equipment for any of the buildings.

SCRANTON, PA.—The Delaware, Lackawanna & Western R. R. Co. has awarded the contract for its Scranton station building to F. D. HYDE, 5 East 42d St., New York, the lowest of 15 bidders, at nearly $500,000.

PHILADELPHIA, PA.—Plans are being prepared by Brockie & Hastings, 328 Chestnut St., for refacing the building of the University of Pennsylvania hospital on Spruce St. between 34th and 36th Sts. Cost, $300,000.

*WASHINGTON, D. C.—Bids are asked until noon, July 31, by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, for marble floors for stair halls, staircases, wall bases, etc., House of Representatives Office Building. George W. Woodruff is Acting Secy.

WASHINGTON, D. C.—Bids are asked until 11 a. m., July 27, at the Bureau of Yards and Docks, Navy Dept., Washington, for making alterations and repairs at the Naval Medical School. R. C. Holyday is Ch. of Bureau.

NORFOLK, VA.—E. TATTERSON, of Norfolk, has been awarded the contract for the construction of the Naval Y. M. C. A. building, to be erected at the corner of Brooks Ave. and Boush St. The contract price will be about $230,000. The plans call for a reinforced concrete structure, six stories high, with brick facing. The building will face 120 ft. on Brooke Ave., with a depth of 104 ft. along Boush St. It is to be completed in about twelve months. Otto Heissenbuttel is Secy.

SAVANNAH, GA.—The Citizens' & Southern Bank has awarded the general contract to MILES & BRADT CO., 800 Austell Bldg., Atlanta, for constructing the bank building, 50 × 130 ft. Estimated cost, $215,000. Mowbray & Uffinger, 92 Liberty St., New York, N. Y., are Archs.

A hotel, 700 × 550 ft., will be erected by Chatham Land & Hotel Co., at a cost of $750,000.

JACKSON, MISS.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., Aug. 22, for construction of an addition to, and the remodeling of, the U. S. post-office and court-house at Jackson.

KNOXVILLE, TENN.—Bids are asked until Aug. 1, by Richards, McCarty & Bulford, Archs., The Ruggery, Columbus, Ohio, for constructing a 10-story bank and office building, 32 × 145 ft., for the Knoxville Banking Co. Cost, about $160,000.

Bids were opened July 10 at the office of James Knox Taylor, Superv. Arch., Washington, for the construction complete of an extension to the U. S. post-office and court-house building at Knoxville, Tenn., as follows: David Getaz, Knoxville, Tenn., $142,900, time 18 months; Ambrose B. Stannard, St. James Bldg., New York, $152,525, time as specified; Thomas & Turner, Knoxville, Tenn., $163,957, time 23 months; George Moore Sons, Nashville, Tenn., $133,000, time as specified; Blueridge Construction Co., Asheville, N. C., $183,763, time Feb. 1, 1909.

MAYFIELD, KY.—The General Association of Baptists of Kentucky, it is reported, has decided to erect a sanitarium to cost about $200,000.

CLEVELAND, OHIO.—The White Automobile Mfg. Co. has obtained a permit for a 6-story administration building, to be of reinforced concrete, 220 × 90 ft., and to be built in connection with its present East Side plant. The building will cost $140,000, and have 120,000 ft. of floor space.

A vaudeville theater, which will cost $500,000, will be built in Cleveland this autumn and winter by B. F. Keith. It will have a seating capacity of 2,300, and is to be completed next spring. The site is near the Hotel Euclid.

The basement permit for the new Pope building to be erected east of the Union Club in the flatiron strip of land between Huron Road and Euclid Ave. has been issued by the city building inspector. The building will cost about $1,000,000. It will be ten stories in height, with two basements extending 34 ft. below the street level. The upper basement will be used for commercial purposes, the lower one for the machinery and storage rooms. The foundation, together with the lower floor, will be of concrete, filled in about a strong steel framework to obviate danger from the quicksand beneath. The building will be 150 ft. long by 100 ft. wide.

Bids are asked by the Board of Education until noon, Aug. 5, for erecting a school building on the property owned by the Board of Education on East 55th St., between Scovil Ave. S. E. and Portland Ave. S. E., and to be known as Technical High School. Charles Orr is Dir. of Schools.

COLUMBUS, OHIO.—The contract for the Post hospital for the United States Government has been awarded to GEORGE A. ABERNATHY, 62 Latte St. Cost, $100,000.

TERRE HAUTE, IND.—Plans submitted by Vonnegut & Bohn, of Indianapolis, for the new office building of the Terre Haute Trust Co. at Seventh and Main Sts. have been adopted by the committee in charge of this part of the work. The architects will begin work on the detailed plans and specifications for the building, and it is expected that bids for the construction of the building will be advertised for not later than the latter part of July. The new building, it is estimated, will cost between $150,000 and $165,000.

DETROIT, MICH.—Frinnell Bros. will erect a 6-story music hall, to cost, $150,000. Albert Kahn is Arch., Union Trust Bldg.

CHICAGO, ILL.—The C. Everett Clark Co., 100 Washington St., has let the steel contract for constructing an office and bank building at La Salle and Adams Sts., for the Corn Exchange National Bank, 217 La Salle St., to BROWN-KETCHAM IRON WORKS, Indianapolis, Ind.; the contract for erection to the OSCAR DANIELS CO., 79 Dearborn St.; the granite contract to EDWARDS & WARD, Fullerton Ave. Bridge, and the shoring to L. P. FRIESTEDT, 143 Dearborn St. It will be 17-story, 188 × 68 ft., with pressed brick, granite and terra cotta exterior, mahogany and oak finish, and cost $1,500,000. Shepley, Rutan & Coolidge, 84 Van Buren St., are Archs.

Huehl & Schmid, Archs., Metropolitan Block, have completed plans for a Masonic Temple, to be built on the west side of Oakley Ave., 125 ft. south of Madison St., for the West Side Masonic Temple Association. It will be 4-story, 14 × 170 ft., of fireproof construction, have pressed brick and stone front, composition roof, and cost about $150,000.

The Chicago Eye, Ear, Nose and Throat College is preparing to erect an 8-story building at the corner of Washington and Franklin Sts., at a cost of $125,000.

NEENAH, WIS.—The APPLETON CONSTRUCTION CO., Appleton, Wis., has secured the general contract for constructing a high school building, 130 × 140 ft., to cost $100,000. FRED. BREWER, Richland Center, Wis., has the heating contract, and the plumbing was let to C. W. NELSON, Neenah. Van Ryn & De Gelleke are Archs., 54 Merrill Bldg., Milwaukee, Wis.

DES MOINES, IOWA.—A building six stories high, 88 × 130 ft., will be erected on the corner of Walnut and Fourth Sts., at a cost of $250,000, for W. W. Moore and Z. Woolf.

The citizens have voted to erect a city hall to cost about $350,000. Architect is not selected. George F. Poorman is City Clk.

MINNEAPOLIS, MINN.—The general contract for the erection of the Plymouth Congregational Church, 19th and Nicollet Aves., city, has been let to J. & W. A. ELLIOTT, 905 Lumber Exchange, city. Shepley, Rutan & Coolidge are Archs., Boston, Mass. Cost, $175,000.

MINNEAPOLIS, MINN.—The following are the bids received recently for erecting the 15-story building which is to be built by J. E. Andrus on First Ave. and Fifth St.: J. L. Robinson, $288,143; Pike & Cook, $304,467; C. E. Haglin, $304,868; H. N. Leighton Co., $215,469; J. & W. A. Elliott, $344,972. Heating: H. Kelly & Co., $27,412; Kelly & Lamb, $27,777; W. F. Porter & Co., $30,000; Tunstead Heating Co., $37,767. Electrical Work: W. J. Gray & Co., $17,250; Northern Eng. Co., $17,300; Minneapolis Electrical & Constr. Co., $17,950; Minneapolis Electric Motor Co., $18,500. Plumbing: Robt. Simpson, $20,800; Kelly & Lamb, $22,500; H. Kelly & Co., $22,747; Chas. Wilkin & Co., $31,500. Marble Work: Northwestern Mantel Co., $39,925; Grant Marble Co., $72,850. Hardware: Warner Hardware Co., $12,426; W. K. Morison & Co., $13,050; Gardner Hardware Co., $13,700. Ornamental Iron: Flour City Ornamental Iron Works, $29,500. Elevators: Otis Elevator Co., 17 Battery Pl., New York, $33,070.

A permit for the construction of the Palace building has been issued by the Building Department. The permit is issued to J. E. Andrus and specifies a steel reinforced concrete building, six stories in height, to cost $156,000, and to be erected at Fourth St. and Nicollet Ave. Long & Long are Archs.

ST. LOUIS, MO.—H. F. Roach, Arch., 721 Olive St., has prepared plans for a 7-story business building for F. G. Wickham. Estimated cost, $150,000.

Plans are being prepared by H. F. Roach, 721 Olive St., for the new Hotel Rozier, to be 194 × 106 ft. Cost, $300,000.

MURCH BROS. CONSTRUCTION CO., Odd Fellows' Bldg., has been awarded the contract for erecting an 8-story business building, 60 × 132 ft., for the Dulany Realty Co. Estimated cost, $160,000. Albert B. Groves, Stock Exchange Bldg., is Arch.

Plans have been completed by Barnett, Haynes & Barnett, Archs., Frisco Bldg., for a tenement apartment to be erected by the Mullanphy Board. The tenement will be located on the south side of Mullanphy St., between 21st and 22d Sts. It will be 180 ft. front by 130 ft. deep, this area inclosing inside court, 114 × 98 ft. The building will be three stories high, and will cost about $100,000. It will have nineteen sets of apartments on each floor. The building will be fireproof, having all exterior walls of hard brick, and all division walls of hollow tile in cement with steel girders and concrete floors, the finished floors to be hard[illegible] and openings will be trimme[illegible] hardwood sanitary finish.

KANSAS CITY, MO.—Jarv[illegible] Monadnock Block, Chicago, h[illegible] approved by the Board of [illegible] union terminal station to be [illegible] City, Mo., for the Kansas [illegible] Co., H. L. Harmon, Pres. Th[illegible] will be three stories high, 5[illegible] fireproof steel construction, [illegible] a lobby 115 ft. high, of whi[illegible] of marble, with large colu[illegible] side, and tile floor. The wall[illegible] waiting room will be of wh[illegible] cotta. It is estimated to cost [illegible] 000 and $3,000,000. The tra[illegible] 166 × 335 ft., mainly of steel [illegible] all, the improvements in conn[illegible] station are estimated to cost f[illegible] to $20,000,000, and $2,000,000 [illegible] pended. It is probable, how[illegible] work may be delayed owing to [illegible] providing funds for the improv[illegible] viously mentioned.

FORT SMITH, ARK.—The [illegible] Southern Ry. Co., it is report[illegible] a depot and make other impro[illegible] facilities, expending between [illegible] $150,000. A. F. Rust is Res[illegible] sas City, Mo.

FORT WORTH, TEX.—Winf[illegible] let the contract soon for a [illegible] building to be erected on t[illegible] Main and Twelfth Sts., to be [illegible] Frisco-Rock Island Railroad [illegible] poses. Estimated cost, $400,0[illegible]

HOUSTON, TEX.—Jonathan [illegible] erect an 8-story office and mer[illegible] in, 150 × 100 ft., on the cor[illegible] Ave. and Fanning St. Estimated cost, $320,000.

The contract for constructing [illegible] Building, to be erected at [illegible] Main St. and Preston Ave. will be awarded in August and the contract will [illegible] completion of the building by S[illegible] It will have fireproof steel frame [illegible] ite reinforcement for the three lower floors and brick and terra cotta for the remaining seven stories, and the interior will be wainscoted with marble. The building will be eleven stories and will be 150 ft. above the sidewalk level. It will be 85 ft. on Main St. and 102 ft. on Preston Ave. The building will cost $600,000. D. H. Burnham & Co., Railway Exchange Bldg., Chicago, Ill., are Archs.

SEATTLE, WASH.—Frank P. Allen, Jr., Dir. of Works, Alaska-Yukon-Pacific Exposition, which will be held in Seattle from June to October, 1909, advises us that about Sept. 1 arrangements will be made to take bids on the permanent buildings, amounting to about $600,000, also about Oct. 1 on the temporary exposition buildings, amounting to about $450,000. See under Sewers and Streets and Roads.

PORTLAND, ORE.—The H. L. Pittock property, bounded by Washington, Stark, Tenth and Park Sts. is to be improved by a $675,000 office building.

STOCKTON, CAL.—The Stockton Investment Co., it is reported, intends erecting a hotel to cost about $500,000.

REDWOOD CITY, CAL.—Bids are asked until July 20 for erecting a courthouse, to cost $150,000. Joseph H. Nash is County Clerk; Glenn Allen, 330 Turk St., San Francisco, is Arch.

SAN FRANCISCO, CAL.—A store building will be erected by the Macdonough Estate Co. at the corner of Grant Ave. and Sutton St. as soon as the detailed plans for the structure can be completed and the contracts let. The construction of the building will be of monolithic reinforced concrete, fire and earthquake proof. Two high speed passenger elevators and a freight elevator will be installed.

Application has been made by James D. Phelan, Mutual Savings Bank Bldg., for a permit to erect an 11-story reinforced concrete steel frame building on the gore corner of Market and O'Farrell Sts., at a cost of $1,500,000.

John A. Roebling Sons have secured a permit to erect a 5-story building on the corner of Folsom and Hawthorne Sts. at a cost of $200,000.

Thomas S. Williams will erect an 8-story brick store and office building at the corner of Madison and Third Sts., at a cost of $150,000.

SAN FRANCISCO, CAL.—A 3-story building is to be erected on the corner of Stockton and O'Farrell Sts. for the D. Samuels Lace House Co., Sutter St. and Van Ness Ave., at a cost of $300,000, and is to be completed the early part of 1909. Hyman Brothers are the owners of the property, the dimensions of which are 137 ft. 6 in. × 137 ft. 6 in. The structure will be a fireproof Class A building. Its facing will be of brick, with ornate terra cotta trimmings, and iron and glass awnings will extend across the sidewalk over each entrance. Meyers & Ward, Kohl Bldg., are Archs.

WINNIPEG, MAN.—Plans for the extension of the present court house at Winnipeg which will necessitate the tearing down of the old land titles building have been prepared by the Provincial Government.

The Icelandic Lutherans have decided to erect an academy at a cost of $100,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

FT. ADAMS (Newport post-office), R. I.—Bids are asked by Capt. Willis C. Metcalf, Q. M., until Aug. 5 for construction of 400,000-gallon reservoir, three shelters for springs and laying pipe from springs to reservoir at Sanderstown, R. I.; also laying pipe from reservoir to and across Narragansett Bay to a connection with reservoir at Ft. Greble, Dutch Island.

BROOKLYN, N. Y.—The following bids were received July 15 by the Supervising Architect, Treasury Bldg., Washington, D. C., for installing high pressure water tube

boiler in ...ffice at Brooklyn: The New ... York Steam ...ting Co., 147 Lafayette St., New York, ...314, Dec. 1; Evans, Almirall & Co., ... New York, ... Water St., New York, $12,500, Oct. 29; ... & Wilcox Co., 85 Liberty St., New ... $12,755, Nov. 10; Phillips, Doup & ... Pearl St., Brooklyn, N. Y., $13,400. ... and John A. Scollay, 74 Myrtle ... Brooklyn, N. Y., $13,900, Nov. 15.

NEW ..., N. Y.—Bids were received July 11 ... Department of Water Supply, Gas and ... Electricity, John H. O'Brien, Comr., ...rnishing, delivering and laying water ... in New Chambers, Water, Oliver, ... and Pike Sts. and James Slip, Boros. ...hattan and The Bronx, as follows: ... Construction Co., $86,716; ...gory, $88,167; W. F. Norton, Louis ... Atlanta Contracting Co., 434 $8,680. ... New York, $77,715. Itemized East ... this week under Contract bids ... Prices.

NEW YORK, N. Y.—Bids were opened on July 3 ... John H. O'Brien, Comr. Water Supply, ... and Electricity, for furnishing, delivering ... laying force mains and removing ... force mains at site of Ridgewood pumping station: J. H. Holmes, 87 Nassau ..., $59,707; Hammond & Sloane, 60 Wall St., ...258; Borough Construction Co., 44 Court ..., $65,368; John F. Mead, $52,525; and Schawmut Construction Co., 41 Park Row, $50,784.

MASSAPEQUA, N. Y.—Council has decided to construct water supply system. Cost, $500,000.

FLUSHING, N. Y.—Bids are asked until July 22 by C. B. J. Snyder, Supt. School Bldgs., New York, for constructing water main, etc., to building for Parental School on road between Flushing and Jamaica, about 1,700 ft. south of Hempstead Turnpike, Flushing, Boro. of Queens.

UTICA, N. Y.—The Consolidated Water Co. has let contract for laying Sections 1 and 3 of 20-in. water mains in western section of the city to D. J. RIORDAN, of this city.

MINEOLA, N. Y.—Bids were received recently by the Village Trustees for constructing water-works, and contracts awarded as follows: CAMDEN IRON WORKS, Philadelphia, Pa., 4-in. pipe, $36.90 per ton, and 6, 8 and 10-in. pipe, $35.40; special castings, 3 cts. per lb. FAIRBANKS & CO., Philadelphia, Pa., fire hydrants, valves and valve boxes. PLATT IRON WORKS, Philadelphia, Pa., pumps, $1,160. ALMA MFG. CO., Philadelphia, Pa., 35-HP. engine, $960. BELMONT IRON WORKS, Philadelphia, Pa., tank and tower, $8,477. FRITZ & PARTRIDGE, Dover, N. J., laying 4-in. pipe, 22 cts.; 6-in. pipe, 25 cts.; 8-in. pipe, 28 cts., and 10-in. pipe, 32 cts.; setting pump, $500; building power-house, $1,433; setting hydrants, $3 each; building pump pit, $1,095, and concrete work, $8 per yd. Walter E. Sexton, 46 North Twelfth St., Philadelphia, Pa., is Engr.

*FT. HANCOCK, N. J.—Bids are asked by M. N. Falls, Const. Q. M., until 2 p. m., Aug. 9, for constructing filtration plant.

HOBOKEN, N. J.—The Water Board June 26 received the following bids for building 30-in. water main from 17th St. to Ferry St., on Bloomfield St.: Kavanagh & Heagney, $84,408; Palisade Construction Co., $88,176; Tumilty & Cutley, $92,380; John C. Tierney, $94,516; Henry Waddington, $97,744, and M. T. Connolly, $117,420.

*STEELTON, PA.—Bids are asked by John D. Young, Boro. Secy., until 7 p. m., Aug. 7, for constructing filter plant. James H. Fuertes, 140 Nassau St., New York, is Consult. Engr.

WESTON, W. VA.—Bids are asked by S. M. Steele, Supt. West Virginia Hospital for Insane, until noon, July 22, for constructing about 800 cu. yds. concrete masonry for reservoir.

WINDER, GA.—A water-works system will be constructed. Estimated cost, $45,000.

MT. AIRY, GA.—The city contemplates constructing water-works and electric light plant.

FT. OGLETHORPE (Dodge post-office), GA.—Bids are asked by Capt. E. D. Anderson, Const. Q. M., until 11 a. m., Aug. 8, for constructing deep well and water system at the government target range at Catoosa Springs, Ga.

WAUCHULA, FLA.—A water-works system will probably be constructed. Estimated cost, $10,000.

BRADENTOWN, FLA.—Bids are asked by the Board of Bond Trustees, A. J. Beck, Secy., until July 25, for constructing water-works. Estimated cost, $10,000. Wm. W. Lyon, Palatka, Fla., is Consult. Engr.

BRUNDIDGE, ALA.—Plans have been submitted to the Council for constructing water and light plant. Estimated cost, $17,000.

BIRMINGHAM, ALA.—The Birmingham Water Co. is proceeding with construction of proposed dam and lake at De Shazo Gap in Pine Ridge for supplying Birmingham with 75,000,000 gallons of water per day. Company will build cement dam 400 ft. long, 90 ft. high and 45 ft. wide at bottom, costing $250,000, across Little Cahaba River, the purpose of the dam being to form a reserve lake, probably three or four miles in length. Company has awarded contract for 8,000,000-gallon pump and engine for the Cahaba station, where pumps are already installed, furnishing 30,000,000 gallons daily. A 30-in. main will be constructed to the city. H. F. Jonngst is Ch. Engr.

BINGHAMTON, TENN.—A water-works and electric light plant will be constructed. Cost, $...

COLUMBUS, OHIO.—Bids are asked by the State Board of Public Works until noon, Aug. 13, for constructing reservoir in Summit County. Charles E. Perkins is Ch. Engr.

GREENWICH, OHIO.—Bids are asked by the Board of Trustees of Public Affairs, J. G. White Clk., until noon, July 23, for constructing spill-way for water-works.

YOUNGSTOWN, OHIO.—Bids are asked by W. H. McMillin, Clk. Bd. Pub. Service, until noon, July 26, for furnishing the following material: Ten tons soft pig lead, 40 fire hydrants, 38 6-in. gate valves and about 400 tons c-i. pipe and special castings.

CHESTERTOWN, IND.—Bids will soon be asked by the Home Water Co., recently incorporated with capital of $50,000, for constructing and equipping water-works plant. H. R. Smith, J. H. Ameling and C. L. Jeffreys are Directors.

ISHPEMING, MICH.—Bids are asked by the Board of Public Works until July 20 for furnishing about 14,500 lin. ft. 14-in. wood water pipe, valves, etc.; also for laying the pipe.

DECATUR, ILL.—Bids are asked until July 26 for constructing water-works. Estimated cost, $32,000. Albert Leach is City Clk. D. W. Mead, 401 State St., Madison, Wis., is Engr.

NEW HOLLAND, ILL.—The contract for constructing water-works system has been let to G. A. TRENKLE, for about $4,500.

CHICAGO, ILL.—The following bids have been received by Paul Rediesker, Deputy Comr. Pub. Wks., for constructing foundation for the Lake View pumping station, Lawrence Ave. and Lake Michigan; American Engineering & Construction Co., recently incorporated, Walter A. Shaw, Pres., $91,400; John J. Gallery, $97,000; M. H. McGovern, $106,570; John J. O'Heron, $110,000; D. West & Co., $109,995; Blocki & Brennan, $113,500; Wm. E. McCarthy, $114,000; Gindele Brothers & Co., $115,735; Roenheld Construction Co., $127,000, and George W. Jackson, Inc., $149,000.

NEVADA, IOWA.—Bids are asked by F. G. Dunahugh, Audr. of Story County, at Nevada, and by Erastus Cornell, Audr. of Marshall County, at Marshalltown, until Aug. 1, for constructing ditch in the Marshall-Story drainage district No. 1 as follows: Section 1, 5,130 ft. open ditch, about 6,500 cu. yds.; section 2, 5,000 ft. 30-in. tile, 2,800 ft. 26-in. tile; section 3, 3,000 ft. 20-in. tile, 3,400 ft. 18-in. tile, 5,400 ft. 16-in. tile and 4,200 ft. 12-in. tile; section 4, 5,500 ft. 16-in. tile, 1,200 ft. 14-in. tile and 1,800 ft. 12-in. tile; section 5, 2,000 ft. 20-in. tile, 4,100 ft. 18-in. tile and 2,900 ft. 14-in. tile; sub-branch 1 of section 5, 1,800 ft. 12-in. tile and 200 ft. 14-in. tile.

CHEROKEE, IOWA.—Bids are asked by the City Council until 7 p. m., Aug. 6, for extending water-works system. D. W. McNeal is City Clk.

ALEXANDRIA, MINN.—The County Auditors of Douglas and Pope Counties July 1 let contracts for constructing Judicial Ditch No. 4, in Douglas and Pope Counties, as follows: W. M. SHERWOOD, of this city, contract for constructing South Main and Branch No. 3, for $8,837. The work consists of about 58,910 cu. yds. excavation. W. E. L. CROZIER, Monticello, Minn., North Main and Branches Nos. 1, 2, 4 and forks, at $6,227. The work includes about 34,592 cu. yds. excavation. E. P. Wright is Audr. of Douglas County.

RUGBY, N. DAK.—The contract for constructing water-works system has been let to W. D. LOVELL, of Minneapolis, Minn. Estimated cost, $9,700.

HARVEY, N. DAK.—The contract for constructing water-works system has been let to W. D. LOVELL, of Minneapolis, Minn., at about $8,000.

BELLE FOURCHE, S. DAK.—The Secretary of the Interior has awarded contract to J. E. HILTON, of Belle Fourche, for construction of portion of south canal, Belle Fourche Irrigation Project, S. Dak., at $46,000. The work consists of excavation of 229,500 cu. yds. of material.

GLENDIVE, MONT.—Contract has been awarded to JOHN A. NELSON, of Sidney, Mont., for construction of eleven culvert drains on Divisions 5 and 6 of main canal, Lower Yellowstone Project, N. Dak.-Mont., for $5,905.

PINE BLUFF, ARK.—The Board of Directors of the Cousette Bayou Drainage District has awarded contract to G. A. McWILLIAMS, at 10 cts. per cu. yd. for drainage of Cousette Bayou. Bed to be reclaimed is about 17 miles long, 20 to 40 ft. wide, and contains about 30,000 acres of farming lands. It is estimated that work will cost about $80,000. A. M. Barrow is Chn. Willis E. Ayres, Randolph Building, Memphis, Tenn., is Engr.

PARIS, ARK.—Bids will soon be asked for installing water-works system.

MOUNTAIN VIEW, OKLA.—Bids are asked until 8 p. m., July 23, for constructing water-works system. A. E. Stinson is Mayor. W. P. Bullock, 110 Monroe Ave., Kansas City, Mo., is Engr.

POTEAU, IND. T.—Bids are being received for constructing pumping station. M. W. Murray is Mayor.

DURAND, IND. T.—A water-works system will be constructed. Estimated cost, $35,000.

MANITOU, COLO.—A reservoir will be constructed here at a cost of about $100,000. Robert M. Reid, of Colorado Springs, is Engr. F. E. Nichols is Mayor.

MOLINA, COLO.—Bids are asked by the Cottonwood Lakes Reservoir Co., J. A. Kirkendall, Secy., until July 25, for constructing cement concrete box, with patent headgate, at No. 1 Lake.

CHEWELAH, WASH.—Bids are asked until Aug. 1 for constructing water-works and electric light plant. F. C. Ranch is Town Clk.

FREEWATER, ORE.—Chas. L. Swain, of Freewater, has secured franchise for water-works. Estimated cost, $50,000.

COTTONWOOD, IDAHO.—Business men will install pumping plant for fire protection. Cost, $15,000.

MILNER, IDAHO.—Bids are asked until Aug. 1 by Paul S. A. Bickel, Ch. Engr., Twin Falls & North Side Water Co., Milner, for constructing 16 miles of canal containing about 30,000 perch of rough rubble masonry, 25,000 cu. yds. lava rock excavation, 680,000 cu. yds. earth embankment.

CHATHAM, ONT.—The water-works system will probably soon be extended.

SIMCOE, ONT.—The contract for constructing water-works system has been let to T. M. CULLON, of Huntsville. Willis Chipman, of Toronto, is Engr.

NIAGARA FALLS, ONT.—The water-works will be improved. Estimated cost, $35,000. W. J. Seymour is City Clk.

WETASKIWIN, ALTA.—The ONTARIO WIND ENGINE & PUMP CO. have received contract for constructing 120,000-gallon steel tank, 140 ft. high, in connection with the water works system.

VANCOUVER, B. C.—Bids will soon be asked for furnishing water pipe. Estimated cost, $10,000.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

SALEM, MASS.—The City Council has authorized the Sewerage Commission to construct two trunk sewers in South Salem, one on the water front and the other through Canal St., to join at South River St. and empty into the Derby St. sewer. G. F. Ashton is City Engr.

TROY, N. Y.—Bids are asked until July 19 by the Board of Contract and Supply, Jas. M. Riley, Clk., for furnishing material and constructing 665 ft. of 26-in. salt-glazed vitrified pipe sewer in Defreest Ave., including four manholes, four catch-basins and 216 ft. 6-in. laterals; also 650 ft. 8-in. salt-glazed vitrified pipe sewer in two alleys, including 240 ft. 6-in. laterals and three manholes. Edward B. Cary is City Engr.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., July 26, for constructing 12-in. tile sewer in Richlawn Ave., between Leroy and Shawnee Aves., and 18 and 15-in. tile sewer in portions of Jackson St. and Durham Ave.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., July 24, for constructing sewers, etc., in various streets, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, July 30, for constructing temporary sanitary sewers and appurtenances in Newark Ave., from a point about 100 ft. north of Innis St. to Richmond Terrace, etc., together with the work incidental thereto; also for constructing a combined sewer, with appurtenances, in Jay St. from a point about 200 ft. north of South St. to the junction of Stuyvesant Pl. with Richmond Terrace, etc., all being within the district known as Sewer District No. 8, in the First Ward of the Borough of Richmond, together with the work incidental thereto.

*CAPE MAY, N. J.—Bids are asked until noon, July 27, by the Cape May Real Estate Co., for laying about 1,300 lin. ft. 18-in. pipe, 100 lin. ft. 24-in. pipe, 100 lin. ft. 12-in. pipe, and constructing three manholes and six catch basins on Beach Ave., Cape May. Edmund K. Brown is Res. Engr.

CARLISLE, PA.—Plans and specifications for constructing sewerage system are being prepared by T. Chalkley Hatton, of Wilmington, Del. Estimated cost, $150,000.

ST. MARYS, PA.—Plans and specifications are being prepared by T. Chalkley Hatton, of Wilmington, Del., for constructing sewerage system. Estimated cost, $70,000.

*SCOTTDALE, PA.—Bids are asked until 8 p. m., Aug. 1, by A. L. Porter, Secy. Boro. of Scottdale, for construction of a sewer system here. The system is to consist of about 2¼ miles of 8 to 36-in. sewer. J. B. Hogg is Engr., Connellsville, Pa.

HARRISBURG, PA.—The following bids were received July 5 by the Board of Public Works for constructing Mish Hollow sewer: Henry Opperman, Harrisburg, $36,344; Geo. B. Stucker, $38,189; Brady & Snavely, $39,203, and Thos. B. Bryson, New York, $48,077. M. B. Cowden is City Engr.

MAHONINGTOWN (New Castle post-office), PA.—FERRY BROS., of this city, have been awarded contract for constructing storm sewer in Mahoning Ave., for about $8,000.

NEW CASTLE, PA.—The Council has let contract for constructing Main St. sewer, from Front to Grant Sts., to GEORGE WALLER & CO., of this city, for $14,880.

WASHINGTON, D. C.—The contract for construction of sewers in the District of Columbia under bids opened June 18 has been let by the District Commissioners to the CRANFORD PAVING CO., 26th and E Sts., Washington, as follows: Section A, tunnel excavation, $6.40 per cu. yd.; sewer brick masonry, $19.50; vitrified brick masonry, $24; concrete masonry "B," $9.50; concrete masonry "D," $9. Section B, ordinary excavation, 95 cts.; sewer brick masonry, $16.50; vitrified brick masonry, $21; concrete masonry, "B," $8.20; rock excavation, $1.90; embankment, 30 cts.

WHEELING, W. VA.—The Board of Public Works has let contract to MARTIN FLANAGAN for completing the 45th St. sewer, at $9.50 per ft. for brick work and $137.50 for each manhole. Charles B. Cooke is City Engr.

WADESBORO, N. C.—Bids are being received by the Wadesboro Sewerage Co., recently organized, for constructing about ¾ mile of sewerage. L. J. Huntley is Pres. Julian F. Allen is Secy.-Treas.

HENDERSON, N. C.—Bids are asked by the Town Commissioners, Henry T. Powell, Clk., until July 24, for extending sewerage system. The work consists of constructing about 1,200 yds. 12-in. pipe sewers.

BRADENTOWN, FLA.—Bids are asked by the Board of Bond Trustees, A. J. Beck, Secy., until July 25, for constructing sanitary sewerage system. Estimated cost, $15,000. Wm. W. Lyon, Palatka, Fla., is Consult. Engr.

JASPER, ALA.—Sewers will probably be constructed. Estimated cost, $15,000.

BESSEMER, ALA.—A storm sewerage system will probably be constructed. Estimated cost, $25,000.

ALEXANDRIA, LA.—Bids are asked by the Mayor and Board of Aldermen until Aug. 6 for constructing about 5 miles of 8, 10, 12 and 14-in. vitrified pipe sewers. Ira W. Sylvester is City Engr.

CHATTANOOGA, TENN.—We are officially advised that the following bids were received by the Department of Public Works July 2 for constructing sewers: Guild & Co., Chattanooga, $87,968; Noll Construction Co., Chattanooga, $101,884; A. L. Patterson & Co., Macon, Ga., $91,500, and T. J. SHEA, New Orleans, La., $82,165 (awarded contract). Robert Hooke is City Engr. Itemized bids are given this week under Contract Prices.

BUCYRUS, OHIO.—Bids are asked until July 19 by Chas. Meyer, Clk. Bd. Infirmary Dirs., for constructing sewage disposal plant.

NEW BREMEN, OHIO.—Bids are asked by A. M. Steinebrey, Village Clk., until Aug. 3 for constructing about 16,000 sq. yds. pavement, etc., on various streets; also for about 3,000 ft. of sanitary sewers.

DELPHOS, OHIO.—The contract for building sewer system has been awarded to PAUL & KERSCHNER, of Dayton. H. RICKER & SONS, of Delphos, secured contract for furnishing the tiles.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service, A. R. Collow, Secy., until noon, July 24, for constructing sewers, etc. W. J. Carter is City Engr.

DEFIANCE, OHIO.—Plans are being prepared for constructing 24-in. tile sewer in Wabash Ave. and Pearl St.

YOUNGSTOWN, OHIO.—JAS. KANE has secured contracts for constructing sewers in Caldwell, Manning and Wells Sts. of the Riverview Sect., No. 1, for $17,200, and for sewers in Belle Ave., Central, Parkwood and Manning Aves. and Crescent St., Riverview Section, No. 2, for $7,180.

IRON RIVER, MICH.—Ordinance has been passed for construction of sewer system in various districts. Chas. A. Otto is Village Clk.

NORTH MILWAUKEE, WIS.—Bids are asked by the Village until Aug. 5 for constructing about 13,000 ft. 6 to 12-in. pipe sewers. W. G. Kirchoffer, Madison, Wis., is Engr.

NEENAH, WIS.—Bids are being received by the Board of Public Works for furnishing sewer pipe to be used this summer. E. W. Thurston is City Engr.

PIERRE, S. DAK.—The PERMANENT CONCRETE CONSTRUCTION CO., of this city, has been awarded contract for constructing about ten blocks of concrete sewers and several miles of tile sewers.

WAMEGO, KAN.—Contract for constructing sewer system will probably be let to W. W. COOK, of Junction City.

WINFIELD, KAN.—The City Council has let contract for constructing sewers, etc., to F. W. YALE, at $26,483. A septic plant may be constructed later.

ST. JOSEPH, MO.—The Board of Public Works has let contract for constructing the 29th St. sewer to MARNELL & SON, as follows: Twenty-one-inch pipe, $1.89 per ft.; 24-in., $2.16; 27-in., $2.47; 31-in., $2.90; manholes and inlets, $30 each. The G. O. SKILFRED CONSTRUCTION CO. secured the contract for constructing the Oak Hill extension of the Mitchell Ave. sewer, for $6.50 per lin. ft.; manholes, $25 each and inlets, $33 each.

BEAUMONT, TEX.—The City has rejected all bids for construction of sewers and will do work by day labor. J. A. Andrews & Son were lowest bidders at $70,400.

FREDERICK, OKLA.—W. W. COOK & SON, Junction City, Kan., have secured contract to extend sewer system. Estimated cost, $25,000. W. P. Bullock is Arch. and Engr.

MONTROSE, COLO.—A sewerage system will probably be constructed. Estimated cost, $30,000.

ALBUQUERQUE, N. MEX.—Plans are being prepared for constructing cement pipe sewer system. J. N. Gladding is City Engr.

OAKLAND, CAL.—Bids are asked until July 24 by the Board of Public Works, Walter B. Fawcett, Secy., for constructing concrete sewers in portions of Second, Webster and Grove Sts.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

CONCORD, N. H.—Bids are asked until July 25 by A. W. Dean, State Engr., Concord, for grading and surfacing with gravel 6,000 ft. of road in Tilton, and 4,500 ft. in the town of Belmont.

HARRISON, N. Y.—Bids are asked until July 24 by Robt. T. Shore, Town Clk., for grading and macadamizing portions of Underhill, Harrison, Pleasantridge and Mamaroneck Aves., Lake and West Sts.

GENEVA, N. Y.—The following bids were received June 27 by the Board of Public Works for paving Cherry and Lyceum Sts., Elmwood Ave. and Elmwood Pl., requiring 14,000 sq. yds. brick and asphalt, 5,000 cu. yds. excav., 10,200 lin. ft. tile, etc., with (a) Metropolitan block; (b) Mack block; (c) Corning block; (d) P. & B. block. John R. Baxter, of Utica, (a) $41,968; (b) $41,833; (c) $38,172; (d) $18,099; H. C. Schroeder, of Rochester, (a) $43,818; (b) $41,784; (c) $41,784; Mulderry Bros., of Albany, (a) and (b) $48,766; c) $46,596.

TROY, N. Y.—Bids have been received for paving Broad and Ninth Sts., as follows: Flood & Sherrill, Sandy Hill, $22,419; Emline Bros., Waterford, $21,775; FLYNN & WILLIS, Waterford, $19,330 (awarded contract). Edward B. Cary is City Engr.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., July 25, for furnishing and planting trees, garden mold, sodding, etc., along various streets, Boro. of The Bronx.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., July 31, for regulating, grading and paving various streets in Brooklyn.

*PLAINFIELD, N. J.—Bids are asked by the Common Council until 8 p. m., Aug. 5, for constructing 15,792 sq. yds. brick pavement, 1,035 lin. ft. new curb and resetting 1,400 lin. ft curbing, with under drains, etc. George B. Wean is City Clk. pro tem. Andrew J. Gavett is City Surv.

RAHWAY, N. J.—Bids are asked until Aug. 1 by the Road Commissioner of the Board of Chosen Freeholders at Elizabeth, for constructing telford and macadam stone roads on St. George Ave. and on Leesville Ave., in the city of Rahway. The estimated quantities include 30,222 sq. yds. 2-in., 467 sq. yds. 6-in., and 6,159 sq. yds. 12-in. macadam, and 1,400 sq. yds. 12-in. telford macadam pavement. Jacob L. Bauer, 215 Broad St., Elizabeth, is County Engr.

SCRANTON, PA.—Bids are asked by the Department of Public Works, C. R. Acker, Dir., until 11 a. m., July 22, for paving Kressler Court and Coyne Pl., with sheet asphalt on concrete base. James Langan is City Engr.

*WILLIAMSPORT, PA.—Bids are asked by the Highway and Sewer Commissioners until noon, Aug. 3, for furnishing and delivering paving machinery as follows: One 20-HP. boiler and fittings; 15-HP. engine and fittings; steam jacketed asphalt mixer; fire wagon, to heat asphalt tools; portable asphalt melting kettle; sand drier; 7 or 8-ton tandem asphalt road roller. J. J. Galbraith is City Clk. James F. Fisher is City Engr.

REYNOLDSVILLE, PA.—Bids are asked by the Town Council, J. C. King, Pres., until Aug. 6, for grading, curbing and paving portion of Swamp alley.

WILMINGTON, DEL.—Bids are asked by Francis A. Price, New Castle, County State Highway Comr., until 11 a. m., July 30, for constructing road from Taylor's Bridge to iron bridge across Smyrna River.

BALTIMORE, MD.—The contract for paving portions of Catherine and Hollins Sts. has been awarded to FILBERT PAVING & CONSTRUCTION CO., 18 Builders' Exchange Bldg., Baltimore, at $2.20 per sq. yd. for sheet asphalt; total cost, $17,016.

APPALACHIA, VA.—C. R. SCHARF & CO., Bristol, Va.-Tenn., have secured contract for constructing 8-ft. sidewalks and macadamize streets, at about $8,000.

TAZEWELL, VA.—Bids are asked until July 25 for reconstructing 1¼ miles of macadam street. E. V. Spotts is Mayor.

FERNANDINA, FLA.—Centre St. will be paved with vitrified brick.

HUNTINGTON, TENN.—The city has awarded contract to the PERRYVILLE GRAVEL & BALLAST CO., Perryville, Tenn., at $10,000 for graveling streets and public square at Huntington.

BARBOURVILLE, KY.—A , macadamized road will be constructed from Barbourville to Manchester. Estimated cost, $36,000.

MAYFIELD, KY.—CHAS. B. QUINN has secured the contract for paving with brick portion of Broadway at $1.98½ per sq. yd.

GREENSBURG, KY.—Bids are asked by the Green County Turnpike Co., L. W. Coakley, Treas., until Aug. 1, for constructing pike about eleven miles in length.

STEUBENVILLE, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until July 30, for constructing highway.

BRYAN, OHIO.—CRAWFORD & SPRATT, of Toledo, Ohio, have secured contract for macadamizing road in Brady Township for $7,417.

DAYTON, OHIO.—The Board of Public Service has let contract for constructing asphalt repair plant to HETHERINGTON & BERNE CO., at $10,500. The BARBER ASPHALT CO. secured the contract for furnishing the equipment for $2,822. Robert E. Kline is City Engr.

NEW BREMEN, OHIO.—See under Sewerage.

DAYTON, OHIO.—Bids are asked by the Board of Public Service, W. A. Maynes, Clk., until noon, July 23, for grading, paving, curbing, etc., portions of various streets. Robert E. Kline is City Engr.

OBERLIN, OHIO.—Bids are asked by the Village Council until noon, July 27, for paving portions of West Lorain and North Professor Sts. C. H. Snyder is Clk.

CINCINNATI, OHIO.—Bids were received July 10 by the Board of Public Service, M. J. Keefe, Clk., for improving Grandin Road, as follows: KIRCHNER CONSTRUCTION CO., Plume and Eighth Sts., Cincinnati, $21,301 (awarded contract), and John W. Sullivan, 703 Mercantile Library Bldg., Cincinnati, $21,510. C. N. Dannenhower is City Engr.

ST. CLAIRSVILLE, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until Aug. 3, for constructing two highways.

PERU, IND.—Bids are asked by the County Commissioners until noon, Aug. 7, for grading, draining and paving roads in Richland Township. Charles Griswold is County Audr.

SPENCER, IND.—Bids are asked by the County Commissioners until noon, Aug. 5, for constructing roads in Clay and Taylor Townships. George O. Milton is County Audr.

SPENCER, IND.—Bids are asked by the County Commissioners until noon, Aug. 6, for constructing 6,176 ft. of pike road in Jennings Township. George O. Milton is County Audr.

BLOOMINGTON, IND.—Bids are asked by the County Commissioners until 2 p. m., Aug. 6, for constructing 11,200 ft. of road in Clear Creek Township. S. M. Kerr is County Audr.

MT. VERNON, IND.—Bids are asked by the County Commissioners until noon, Aug. 5, for constructing ten gravel roads. S. G. Howard is County Audr. George W. Sarils is Engr.

GREEN CASTLE, IND.—Bids are asked by the County Commissioners until July 27 for constructing macadamized roads. C. C. Hurst is County Audr.

BRAZIL, IND.—Bids are asked by the County Commissioners until 11.30 a. m., Aug. 6, for constructing 10,050 ft. of gravel road in Lewis Township. James L. Burns is County Audr.

BRAZIL, IND.—Contracts have been let as follows: MICHAELS & MINNICK, of Muncie, cement sidewalks on Depot, W. McDonald, Hendrix, Illinois, Tennessee and Vermont Sts.; prices per lin. ft. range from 45 cts. to 58 cts.; paving with brick alley north of High School, at $1.54 per ft. KIRKPATRICK BROS., of Greenfield, cement sidewalks on West Shattuck, Morton Sts., at 57 to 60 cts. per lin. ft., and paving Blaine St. and First Alley south of National Ave. with brick, at $1.25 and $1.29 per sq. yd. RALPH M. CAMPBELL, cement sidewalks on Park, West Halbert, Compton Sts. and North First Ave., at 53 and 54 cts. per lin. ft.

INDIANAPOLIS, IND.—Bids will soon be asked by the Board of Public Works for grading, paving, etc., portions of various streets. Blaine H. Miller is City Engr.

LANSING, MICH.—The contract for paving two blocks on South St. has been awarded to M. E. FITZPATRICK, for $5,992.

*BELLEVILLE, ILL.—Bids are asked by the Board of Local Improvements until 2 p. m., July 27, for 80,750 sq. ft. of paving, 46,900 lin. ft. of curbing and 37,943 lin. ft. of sewer pipe.

EAGLE, ILL.—Bids are asked by the Highway Commissioners, Kangley, Ill., until 9 a. m., July 20, for constructing gravel road.

DANVILLE, ILL.—Bids are asked until July 20 by M. J. Barger, Treas., Danville Branch N. H. D. V. S., for repairing concrete walks.

CHARLESTON, ILL.—GEO. W. BREWER, of Charleston, has secured contract for paving Jackson St., for $7,768.

QUINCY, ILL.—HENRY REES has secured contract for paving portion of Second St. with brick at $1.47½ per sq. yd.

OSHKOSH, WIS.—Bids are asked by the Board of Public Works until noon, July 22, for grading and constructing tar macadam roadway with combined cement curb and gutter on portion of Northwestern Ave. George H. Randall is City Engr.

DES MOINES, IOWA.—Bids are asked until July 30 by the Board of Public Works, W. W. Wise, Chn., for about 1,225 lin. ft. curbing with Portland cement on West 16th St.; about 1,800 lin. ft. on West 26th St., and 2,190 lin. ft. on Sixth Ave. and Sixth Ave. bridge; paving with No. 1 repressed vitrified brick on 6-in. Portland cement foundation, and Portland cement top filler on West 12th St., 4,403 sq. yds., and East First and East Second Sts., 11,168 sq. yds. George D. Dobson is City Engr.

SAVANNAH, MO.—The contract for laying 13,775 sq. yds. vitrified block on 5-in. concrete asphalt fill has been let to FRED. M. CLARK, of this city, at $2.18 per sq. yd. Bids were also submitted by B. F. Halsey, St. Joseph, Mo., $2.34, and Bryon Kelly, St. Joseph, $2.42¼. J. E. Schnitzins is City Engr.

EL RENO, OKLA.—Bids are asked by the City Council until 8 p. m., July 25, for grading and paving with brick various streets. L. G. Adams is City Clk.

TACOMA, WASH.—A. P. STOLL has secured contract for grading and laying sidewalks on Delin and G Sts. for $17,965. Frank L. Davis is City Engr.

OAKLAND, CAL.—Bids are asked by the Board of County Supervisors, John P. Cook, Clk., until 10 a. m., July 22, for macadamizing county road leading from Mt. Eden to Alvarado, a distance of 3,000 ft.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

PITTSFIELD, MASS.—Contract has been awarded by the General Electric Co., Pittsfield Works, for erecting a shop building 65 × 100 ft., of steel frame and brick walls, to BECKWITH & PIKE, of Pittsfield, Mass.

PROVIDENCE, R. I.—See under Electric Railways.

WATERBURY, CONN.—Plans are being prepared by T. B. Peck, Arch., 65 Bank St., for a 2-story plant, 118 × 60 ft., for the Waterbury Castings Co.

NEW YORK, N. Y.—Bids are asked by the Board of Health until 9.45 a. m., July 30, for furnishing all labor and materials necessary or required to furnish and install two tubular boilers, laundry machinery and equipment, together with all necessary steamfitting and other work incidental thereto, in the laundry building on the grounds of the Tuberculosis Sanatorium, at Otisville, Orange County, N. Y. Dr. Thomas Darlington is Pres.

ROME, N. Y.—The Rome Locomotive & Machine Works, Rome, N. Y., has awarded contract to the McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., for an addition to its boiler shop, 80 × 160 ft., and 30 ft. high, work of construction to be commenced at once. New machinery will be installed, which will include traveling cranes, hydraulic riveters and flanges, and new punching and shearing machines.

PASSAIC, N. J.—The Dundee Textile Co. is about to make an expensive addition to its plant. The job dyeing department will be extended 75 × 100 ft. The Dundee Textile Co. manufactures gloria cloth.

PHILADELPHIA, PA.—The Wetherill Casting Co. will erect a 1-story foundry and machine shop, 80 × 125 ft., at Erie Ave. and Richmond St. Stearns & Castor are Archs., Stephen Girard Bldg.

Permits have been granted to CRAMP & CO., Commonwealth Bldg., contractors, for erection of two buildings for manufacturing purposes, one to be built at the corner of Fifth and Appleton Sts., the other on the north side of Lombard St. above 25th St. The former building, which is to be erected for the Smith, Kline & French Co., will be a 6-story concrete, brick and terra cotta structure, covering an area of 91.1 × 61.1 ft. The cost will be $100,000. The latter building, which will be occupied by the New York Pie Baking Co., will be two stories high and will measure 131.4 × 74 ft. It will be of fireproof construction with an exterior facing of brick. The cost will be $40,000. Plans for both buildings were drawn by Ballinger & Perrot, 1200 Chestnut St.

ALLEGHENY, PA.—The McKinney Mfg. Co., Allegheny, Pa., manufacturer of hinges and door hangers, is preparing to build a 3-story addition to its plant, to be used as a warehouse.

PITTSBURG, PA.—Thomas Hannah, Arch., Diamond Bank Bldg., has let contract to COCHRAN & DAVIS, 1210 Washington Ave., Allegheny, for a 3-story brick factory building, for the Kinney Manufacturing Co.

Spiral Spring Co., care of Commonwealth Real Estate Co., Fourth Ave., Pittsburg, Pa., will build a plant in Butler St. Cost, $60,000.

The Pittsburg Screw & Bolt Co., Pittsburg, has broken ground on its new site on Penn Ave., between 24th and 25th Sts., adjoining its present plant, on which it will erect a 3-story steel and brick building, 100 × 100 ft. The contract has been let to the RITER-CONLEY MFG. CO., 55 Water St., and the E. C. WILCOX CO., 8 Wood St., Pittsburg, and it is expected that the building will be completed by Sept. 1. Part of the third floor will be used for office purposes.

LANGDALE, PA.—The West Point Mfg. Co., West Point, Ga., has plans and specifications for erection of buildings for mill here. Main mill will be 802 × 130 ft., 627 ft. 4 ins. to be three stories high and 174 ft. 8 ins. to be one story high. Boilerhouses will be separate. Warehouse will have capacity for 30,000 bales of cotton. Picking, carding, spinning and weaving machinery will be installed in 3-story portion, and cloth and shipping rooms in 1-story portion. Electricity will be used for power, distributed by individual motors. The J. F. GALLIVAN BUILDING CO., Greenville, S. C., has contract and will begin construction at once. Lockwood, Greene & Co. are Archs., 93 Federal St., Boston, Mass.

BALTIMORE, MD.—The J. J. Lacy Co., Baltimore, Md., proprietor of the Industrial Iron Works, has completed plans for an addition to its plant, 26 × 87 ft.

The Board of Awards, City Hall, has awarded contract to M. C. DAVIS, 5 Hopkins Pl., at his bid of $40,935 for the construction of workshop in yard of City Jail, which will have four stories, and will be 50 × 160 ft., of brick with stone trimmings, reinforced-concrete construction. Construction will be done under supervision of E. D. Preston, Inspector of Bldgs., City Hall.

*WASHINGTON, D. C.—Bids are asked until noon, July 31, by Elliott Woods, Supt. U. S. Capital Bldg. and Grounds, for steel shelving equipment for the office of the Clerk of the Supreme Court, District of Columbia.

CHARLESTON, W. VA.—The capital stock of the Kenton Iron & Steel Co., James W. Arnold, Pres., Mason, W. Va., will be increased and a branch steel plant for rolling car axles and other steel products will be erected.

ST. PAULS, N. C.—A cotton mill to cost $100,000, is to be built at St. Paul's, Robeson County, under the supervision of W. D. McNeill, Pres. of the McNeill Mfg. Co., builder of the Raeford Cotton Mill, and a stockholder and officer of the Victory Mfg. Co.

SAVANNAH, GA.—The Georgia Excelsior Co., recently incorporated, will erect and equip buildings at cost of $10,000, to produce excelsior. W. C. Smith is Supt.; A. C. Carter, Secy. and Treas. A. D. Strobhar is Pres.

VALDOSTA, GA.—The plant of the Wisenbaker Lumber Co., which was recently destroyed by fire at a loss of from $40,000 to $45,000, will be rebuilt, it is reported. D. C. Ashley, M. R. Oustley, Mrs. Robert Oustley, Lawson Wisenbaker and W. A. Pardee are owners.

GADSDEN, ALA.—A plant for forging steel axles will be erected here by the Southern Steel Co., E. T. Schuler, Vice-Pres., Gadsden; Moses Taylor, Pres., 30 Pine St., New York. The daily capacity of plant will be 60 tons.

ABERDEEN, MISS.—See under Light and Power Plants.

MEMPHIS, TENN.—S. G. Scott, Memphis, will erect an abattoir, which will have a capacity for killing 75 to 100 head of cattle per day. Cost, $25,000.

YOUNGSTOWN, OHIO.—The Youngstown Sheet & Tube Co., Youngstown, will build two furnaces with a capacity of 300 tons each, new ore bins, new ore bridge, eight soaking pits, and a moving car unloader. Cost, $2,000,000.

DEFIANCE, OHIO.—The H. P. Miller Produce Co., of this city, has increased its capital stock from $100,000 to $200,000 and will erect a poultry and egg packing plant with a floor space of 120,000 sq. ft. The building will be of concrete, three stories in height. Included in the new plant will be modern slaughtering rooms so as to preserve the blood of fowls killed, a poultry fattening plant, feather renovating outfits, and departments for the purchasing and packing of hides, wool, clover seed and other similar products.

WARREN, OHIO.—The contract for constructing the building to be erected by the Hoelscher Electrical Mfg. Co. on its property at the corner of North Ave. and North Vine St. has been let to HICKMAN & DUSTMAN. Work will be started immediately.

The Federal Graphite Co., [illegible], proposes to build a plant at W[illegible], $75,000. C. U. Zahnaw is Sec. [illegible], Colorado.

COLUMBUS, OHIO.—The [illegible] Typewriter Co. will erect a plant for the manufacture of automatic typewriters [illegible] bus. F. C. Kingsbury is one of the promoters of the McCall Typewriter Co.

EVANSVILLE, IND.—The [illegible] Co. has ordered plans for construction of a new plant. The building will be a 2-story brick structure with basement. Harris & Shopbell are Archs.

The Bosse Furniture Mfg. Co. has ordered plans and will ask for bids soon for erection of an addition to present plant. The addition will be 54 × 100 ft., two stories high, of brick construction. Bids will also be received for the construction of a new fireproof vault. Estimated cost, $20,000. G. L. Schlotter is Arch.

The Evansville Sash & Door Co. announces that bids will be asked soon for the erection of an addition equal in size to the present plant on Ohio St. A. C. Hodson is Gen. Mgr.

PLYMOUTH, IND.—The Plymouth Grain Co., recently incorporated, will construct an elevator and flour mill here. H. A. Shambaugh is Pres.; F. A. Bosworth Secy.

INDIANAPOLIS, IND.—The United States Return Hot Blast Co. has been incorporated to construct, equip and operate a factory in South Indianapolis, to manufacture and install a patented mechanical device for consuming unburnt gases in furnaces. C. J. Shoemaker is Pres. and W. Y. Munson is Secy.

BATTLE CREEK, MICH.—The Union Steam Pump Co., Battle Creek, has secured the property on South Jefferson Ave., between the Grand Trunk Ry. and Noble St., and is planning the entire reconstruction of its present plant and erection of new buildings, which, when completed, will give the company about four acres of floor space. The new buildings will include a 3-story office structure, a warehouse, testing, erecting, and stock rooms, and the boiler house. The present machine shop will be replaced by a new building, doubling its present capacity, and at the south end of the new shop a coal shed and boiler room are to be erected. The remainder of the plant will be remodeled and refitted, and a new chipping room added to the foundry. Modern machinery will be installed throughout the plant, including pneumatic tools, and wherever practicable the machines will be driven by independent motors. The plant will be fitted throughout by electric traveling cranes.

SPRINGFIELD, ILL.—The Springfield Consolidated Railway Co. proposes to erect a car house and repair shop, it is reported. Two sections of the car house will be erected this year. This will be used as an operating car house, including repair shop, storerooms and offices. Emil G. Smith is Gen. Mgr.

CHICAGO, ILL.—The Chicago Malleable Castings Co., West Pullman, Chicago, Ill., will erect immediately a brick building, 75 × 250 ft., to be used for the manufacture of cores. Convenient side tracks will permit the unloading of sand, resin, &c., directly into storage bins. The building will be placed in the center of a group of molding departments, making it easily accessible and avoiding the usual long haul to the molders' benches. The company has not yet purchased its sand mixing machinery.

F. E. Gatterdam, Arch., 99 Metropolitan Block, 163 Randolph St., has let the following contract for constructing a brewery at 22d St. and Spaulding Ave., for the New Brewery: Masonry, JOHN KALCHBRENNER, 519 Chamber of Commerce Bldg.; carpentry, LAUTH & MILLER, 1964 Grenshaw St.; steel work, JENNET BRIDGE & IRON WORKS, 3541 Shields Ave., and copper and tank work to GOETZ & FOLDEN, 109 Chicago Ave. It will comprise a 5-story brew house, 42 × 46 ft., of slow-burning construction with reinforced concrete floors and concrete foundation, a 5-story cellar, 44 × 120 ft., of similiar construction, a 2-story office and flat building, a 2-story stable, to accommodate 20 horses, wagon sheds, and an electric light and power plant. The buildings will have stock brick exteriors, pressed brick trimmings, composition roofs, and the latest appliances. The plant will have a capacity of 80,000 bbls., and will cost $160,000.

MILWAUKEE, WIS.—A building permit for a factory and warehouse to be built for the William Berger Bedding Co. has been issued. The building will be erected at a cost of $75,000 and will be located at Florida and Grove Sts.

EAU CLAIRE, WIS.—Bids will be received in about one month for a $30,000 1-story foundry for the McDonough Mfg. Co.

The contract for constructing a 2-story machine shop for Phoenix Mfg. Co. has been awarded to the HOEPPNER BARETT CO.

DAVENPORT, IA.—The Glucose Co., it is reported, intends erecting a 6-story addition, 200 × 95 ft., to its plant, to cost approximately $25,000.

BRAINERD, MINN.—W. L. Darling, Chief Engr. of the Northern Pacific Ry. Co., St. Paul, Minn., has awarded the general contract for constructing railroad shops here, consisting of eight buildings, to LIBBY & NELSON, 244 Second Ave. South, Minneapolis, Minn. Estimated cost, $110,000.

KANSAS CITY, MO.—See under Light and Power Plants.

COURTNEY, MO.—We are officially advised that the Blue Seal Portland Cement Company, Kansas City, Mo., will erect immediately a mill with a capacity of 2,500 bbls. a day at Courtney, Jackson County, eleven miles east of Kansas City, Mo., and on the Chicago, Topeka & Santa Fe Ry. Oil or coal will be used for fuel. The contract for the building of this plant has been let to the FULLER ENGINEERING CO., of Allentown, Pa.

ST. LOUIS, MO.—The Heine Safety Boiler Co., Commonwealth Trust Bldg., will erect a shop on site recently purchased. Between $250,000 and $300,000 will be expended on plant, details of which have not yet been decided.

The Francis Bros.' Bag Co., 601 South Fourth St., will erect a new factory, 144 × 185 ft., at 2424 South Second St. Cost, $25,000.

A plant for the manufacture of metal ceiling and iron roofing will be erected by the E. E. Souther Iron Co., Second and Monroe Sts. Cost, $180,000.

KIRKSVILLE, MO.—A 4-story factory building, 60 × 300 ft., will be erected for the Friedman Bros. Shoe Co., 900 Washington Ave., St. Louis, Mo. Cost, $70,000. M. J. Piercy is Arch., Kirksville.

SOUR LAKE, TEX.—Thompson & Ford Lumber Co. will erect a mill at cost of $125,000. 56 × 176 ft. Product, yellow pine and hardwood, 100,000 ft. daily. Harry Badstenbuhl is Engr. and Arch. A. C. Ford is Vice-Pres. A. E. Kerr is Treas.

HUNTER, OKLA.—A grain elevator with a capacity of 20,000 bushels, and a flour mill with a capacity of 100 bbls. will be erected here by the Hunter Lumber Mill, Elevator & Coal Co., recently incorporated. S. P. Thomas is Secy. and Treas. J. B. Thomas is Arch.

TACOMA, WASH.—C. D. Danaher expects to commence work on extensive improvements to his mill. Four boilers will be added to the steam plant and the boilerhouse will be extended to the edge of the wharf and entirely rebuilt. The improvements to be made at the mill will cost about $650,000.

ALBANY, ORE.—Frank W. Watson, Albany, Ore., and his brothers, will establish a plant here to manufacture logging engines, machinery, and for general foundry work. A site for the plant has not yet been selected, but it is the intention to locate on the Southern Pacific Railroad.

WATSONVILLE, CAL.—A plant to cost $100,000 for manufacture of cider, vinegar and pickles will probably be erected here by Jones Bros. & Co., Louisville, Ky. C. W. Jones and E. R. Kreiger, Louisville, Ky., are interested.

SYDNEY, C. B.—The Clark Foundry Co. will erect a mill foundry at Sydney. The building will be of steel and concrete construction.

MONTREAL, QUE.—Swift, Coneland & Co., 517 St. Paul St., Montreal, will erect a 6-story fireproof factory on St. Paul St.

SHERBROOKE, QUE.—The directors of the E. & T. Fairbanks Co., of St. Johnsbury, Vt., have decided to construct a factory for the Canadian branch of their scale business at Sherbrooke.

PETERBORO, ONT.—The Colonial Weaving Co. has decided to increase its capital stock to $110,000, and to double the size of its plant.

WELLAND, ONT.—M. Beatty & Sons, of Welland, will enlarge their plant. A second shipyard will be constructed, and the boiler shop will be enlarged.

HAMILTON, ONT.—The Laidlaw-Ainslee Lumber Co., Hamilton, have purchased a site and will erect an office furniture factory.

BRANTFORD, ONT.—The Gould, Shapley & Muir Co. is making extensions to its plant at Brantford at a cost of $27,000. A warehouse, blacksmith and galvanizing shops are to be erected.

WINNIPEG, MAN.—Contracts for constructing roundhouse at Cranbrook, Coleridge, Strathcona and Swift Current have been let by the Canadian Pacific Ry. Co. to the J. McDIARMID CONSTRUCTION CO., Langside and Portage Sts., Winnipeg; also the contracts in Winnipeg for additions to the shops and car sheds. The estimated cost of the work is $125,000. H. Y. Parker is Res. Engr., Cranbrook, B. C.

LETHBRIDGE, ALTA.—William Oliver, Lethbridge, will erect a wood-working factory there, at a cost of about $30,000. It is his intention to also form a company for the manufacture of cement blocks, and erect a plant costing $14,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

PILES.—New York.—See under Bridges.

*DREDGING.—Jacksonville, Fla.—Bids are asked until noon, Aug. 16, by Maj. Francis R. Shunk, Corps Engrs., U. S. A., for dredging in Tampa Bay.

*DREDGING.—Wilmington, Del.—Bids are asked by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., until 11 a. m., Aug. 5, for dredging Salem River, N. J.

*JETTY WORK.—Galveston, Tex.—Bids are asked until noon, Aug. 16, by Capt. John C. Oakes, Corps Engrs., U. S. A., for jetty work at mouth of Brazos River.

DITCH.—Sullivan, Ind.—Bids are asked until Aug. 5, for constructing a dredge boat ditch, about 80,000 cu. yds. W. H. Jones, Jr., New Lebanon, Ind., is Engr. and Supt.

*DREDGING.—Philadelphia, Pa.—Bids are asked until noon, Aug. 12, by Maj. J. C. Sanford, Corps Engrs., U. S. A., Philadelphia for dredging in Delaware River at Ferrwig Bay.

PIER, DOCK, ETC.—Elizabeth, N. J.—W. H. Luster, Jr., City Engr., states that bids will be received on Aug. 1 by John Kenah, City Clk. for constructing pier, dock and cribs. Estimated cost, $40,000.

WIRE FENCE.—Van Buren, Ark.—The Crawford County Commissioners have awarded contract at $204.70 a mile to JOHN BLEVINS for building about 25 miles of wire fence in Crawford County.

*BEAR TRAP GATE.—Wheeling, W. Va.—Bids are asked until 11 a. m., Aug. 14, by Capt. F. C. Boggs, Corps Engrs., U. S. A., for furnishing iron and steel for bear-trap gates for Dam No. 18, Ohio River.

DREDGING.—Toronto, Ont.—The WINDSOR DREDGING CO. has been awarded the contract of dredging Toronto Harbor. The Dominion Government has appropriated $50,000 to be expended this year on the work.

TROLLEY APPROACHES.—Brooklyn, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., July 23, for the construction of trolley railway approaches to the Brooklyn Bridge, Boro. of Brooklyn.

TEST BORINGS.—New York, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., July 23, for making test borings at the site of a new bridge over the East River, between the Boroughs of Manhattan and Brooklyn.

BREAKWATER IMPROVEMENTS.—Ottawa, Ont.—Bids are asked by the Department of Public Works, Ottawa, F. Gelinas, Secy., until July 24th, for placing stone and concrete blocks along south face of western breakwater at Port Colborne.

REMOVING COLUMNS.—Brooklyn, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., July 23, for removing columns at Sands and Washington Sts., Boro. of Brooklyn, Brooklyn Bridge.

DOCKS, ETC.—Vancouver, B. C.—The Canadian Pacific R. R. Co. has decided upon a plan of improvement for the water front which includes the building of additional docks, warehouses, etc. C. E. Cartwright is Div. Engr., at Vancouver.

*LOCK, ETC.—Brownsville, Pa.—Bids are asked until noon, Aug. 12, by Maj. H. C. Newcomer, Corps Engrs., U. S. A., Pittsburg, for building a lock with two chambers, two guide walls and two guard walls, at Brownsville, on the Monongahela River.

DREDGING.—Victoria Harbor, Ont.—The contract for dredging at Victoria Harbor Ont., has been awarded to the OWEN SOUND DREDGE & CONSTRUCTION CO., Ltd., of Owen Sound, Ont. Fred Gelinas is Secy., Dept. Public Works, Ottawa, Ont.

*STEEL SHELVING EQUIPMENT.—Washington, D. C.—Bids are asked at office of Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, until noon, July 31, for steel shelving equipment for the office of the clerk of the Supreme Court of the District of Columbia.

CONCRETE FLUME.—Butte, Mont.—A. H. Wethey, Mgr. for the Clark properties in Butte, has announced that the Butte Reduction Works will build a $100,000 concrete flume to carry the waters of Silver Bow Creek past the properties of the company along the creek bed.

*DREDGING.—Norfolk, Va.—Bids were received on June 29 by Maj. Joseph E. Kuhn, Corps Engrs., U. S. A., for dredging harbor at Norfolk. Estimated quantity, 7,600,000 cu. yds. The Coastwise Dredging Co., of Norfolk, submitted the lowest bid, at 7.3 cts. a cu. yd. scow measurement.

*MARGINAL CONDUIT.—Boston, Mass.—Bids are asked until 2.30 p. m., Aug. 6, by the Charles River Basin Commission, 367 Boylston St., Boston, for constructing the Cambridge marginal conduit. Work includes concrete masonry, piling and excavating. Henry S. Pritchett is Chn.; Hiram A. Miller is Ch. Engr.

DRAINAGE.—Pocahontas, Iowa.—Bids are asked until Aug. 6 by J. A. Terry, County Audr., Pocahontas, for furnishing material and constructing the drainage improvement of Drainage Improvement Dist. No. 13, Pocahontas County, approximately five miles of open ditch containing about 97,000 cu. yds. and about 9½ miles of open ditch from 6 to 20-in. in diameter.

LEVEE.—New Orleans, La.—Bids were received by Capt. J. F. McIndoe, Corps Engrs., U. S. A., on July 10 for constructing about 300,000 cu. yds. of levee work in the Pontchartrain Levee District. The following bids were recommended for acceptance: J. R. Marlow, L'Argent, La., 80,000 cu. yds., at 19 cts.; O. A. Gibson, Natchez, Miss., 54,000 cu. yds., at 19.5 cts.; Linnan Bros. & Muller, Whitecastle, La., 108,000 cu. yds., at 21.7 cts. and 57,000, at 18.5 cts.

TIMBER, ETC.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. Public Works, Albany, N. Y., until noon, July 30, for furnishing and delivering timber and plank for use on the New York State canals. All deliveries are to be completed by Dec. 1, 1907. The material is to be sawed to dimensions given in the specifications. The approximate quantities of materials on which proposals are asked are as follows: 450,000 ft. B. M. white oak; 570,000 ft. B. M. white pine; 370,000 ft. B. M. Georgia pine; 32,000 ft. B. M. beech or maple; 39,000 ft. B. M. hemlock; 164,000 ft. B. M. spruce, and 800 cedar posts.

ORDNANCE.—Washington, D. C.—Bids were opened as follows July 12 at the office of the Chief of Ordnance, War Department, Washington, D. C., for (1) 12 sets of shields for 3-in. field-gun carriages, and (2) 122 sets of hardened steel protectors for caissons. In every case the bid is the price per set. Bethlehem Steel Co., South Bethlehem, Pa. (1) $159.50; time, nine months. American & British Co., Bridgeport, Conn. (1) $189; 180 days. Jessup Steel Co. (1) $165; (2) $150; five months. Crucible Steel Co., Pittsburg, Pa. (1) $179; (2) $154; six months. Driggs-Seabury Ordnance Corporation, Sharon, Pa. (1) $150; three months, (2) $149.50; five months.

DREDGING.—San Diego, Cal.—Bids were received by Capt. Amos A. Fries, Corps of Engrs., U. S. A., 537 Citizens' National Bank, Los Angeles, June 12, for dredging 37,200 cu. yds. at San Diego Harbor, Cal., as follows: NORTH AMERICAN DREDGING CO., 13 Park Row, New York, 51 cts. a cu. yd. Atlantic, Gulf & Pacific Co., 13 Park Row, New York, 98 cts. a cu. yd. Under date of July 6, we are officially advised that contract has been awarded to the NORTH AMERICAN DREDGING CO.

CANAL.—Pittsburg, Pa.—The Lake Erie & Ohio River Ship Canal Co., with offices in the Frick Bldg., Pittsburg, has received its national charter from the United States Government. Chief Engineer Lehmen, of Pittsburg, has practically completed plans for the construction of this canal, which will be 160 feet wide, 14 feet deep and 103 miles in length, connecting the Ohio River with Lake Erie. The Lake Erie terminal will be near Ashtabula, Ohio, and the Ohio River terminal near Beaver, Pa. The canal will cost about $50,000,000 and the work of financing the project will be started at once.

CONCRETE LEVEE.—Oroville, Cal.—The City Council has adopted plan No. 5, as a means of protecting Oroville from damage by future floods of Feather River. This plan is for a concrete wall extending from Flour Mill hill to a point near the Northern Electric Co.'s depot. It will be about six feet wide on the bottom and 18 inches on top. It is proposed to brace it with dredge tailings. The estimated cost will be approximately $100,000. It will be necessary to issue bonds to raise the money necessary to build the levee.

(Continued on next page.)

CONTRACT PRICES.

SEWERAGE.—Chattanooga, Tenn.—Bids were received, as follows by the Board of Public Works on July 2 for constructing sewers in Districts 9 and 7. The bidders were: (A) Guild & Co., Chattanooga; (B) Noll Construction Co., Chattanooga; (C) A. L. Patterson & Co., Macon, Ga.; (D) T. J. [illegible]A, New Orleans, La. (awarded contract):

	(A)	(B)	(C)	(D)
Sewer District No. 9, City.				
2,393 cu. yds. earth fill over sewer	$0.75	$0.60	$0.50	$0.57
1,410 cu. yds. earth excav. & refill, 0' to 10'	.70	.40	.70	.50
2,558 cu. yds. earth excav. & refill, 10' to 15'	1.15	.50	1.00	.65
3,736 cu. yds. earth excav. & refill, 15' to 20'	1.15	.95	1.00	.80
4,945 cu. yds. earth excav. & refill, 20' to 25'	1.30	1.30	1.50	1.00
5 cu. yds. rock excavation	5.00	3.00	4.00	3.00
2,270 ft. 46″ × 69″ brick sewer (2 rings)	5.62	7.32	6.50	5.00
120 ft. 46″ × 69″ brick sewer in tunnel	22.12	20.00	25.00	40.00
120 ft. 46″ × 69″ brick sewer open cut	30.00	25.00	40.00	33.00
618 ft. 40″ × 60″ brick sewer (2 rings)	4.82	6.95	5.50	5.00
1,172 ft. 38″ × 57″ brick sewer (2 rings)	4.22	6.95	4.50	4.85
5 ft. 35″ × 52½″ brick sewer (2 rings)	8.60	6.95	10.00	4.55
31 ft. 27″ × 40½″ brick sewer (2 rings)	3.30	6.75	4.00	3.60
169 ft. 20″ × 30″ brick sewer (1 ring)	1.47	4.25	1.50	1.25
1 manhole for brick sewer 7' in depth	45.00	70.00	50.00	60.00
1 manhole for brick sewer 10' in depth	57.50	94.00	70.00	75.00
1 manhole for brick sewer 14' in depth	74.00	120.00	100.00	100.00
2 manholes for brick sewer 18' in depth	93.00	148.00	100.00	130.00
3 manholes for brick sewer 19' in depth	98.00	156.00	100.00	125.00
2 manholes for brick sewer 20' in depth	104.00	164.00	100.00	142.00
2 manholes for brick sewer 22' in depth	115.00	184.00	100.00	150.00
4 manholes for brick sewer 23' in depth	121.00	192.00	100.00	157.00
114 cu. yds. excav. & refill, sewer diverter	2.60	6.00	3.00	1.00
45 cu. yds. concrete walls, etc., diverter	12.00	12.50	10.00	12.00
10 sq. yds. cement top, diverter	1.25	.75	1.00	2.00
2¾ tons 16″ c.-i. pipe	80.00	50.00	100.00	50.00
1 drop manhole, Fig. 1, D. S. "A"	270.00	210.00	200.00	240.00
1 drop manhole, Fig. 2, D. S. "A"	38.00	140.00	40.00	190.00
1 drop manhole, Fig. 3, D. S. "A"	164.00	245.00	200.00	190.00
1 drop manhole, Fig. 4, D. S. "A"	62.00	185.00	100.00	190.00
1 brick sewer junction spec. draw	203.00	262.00	200.00	280.00
5 cu. yds. extra brick masonry	12.00	12.00	10.00	15.00
5 cu. yds. extra concrete in place	10.00	12.50	8.00	12.00
112 ft. 18″ pipe sewer, 0 to 6' in depth	1.42	1.15	1.65	*1.15
28 ft. 18″ pipe sewer, 6 to 8' in depth	1.67	1.25	1.90	1.33
21 ft. 18″ pipe sewer, 8 to 10' in depth	1.88	1.35	2.00	1.48
338 ft. 15″ pipe sewer, 6 to 8' in depth	1.36	1.18	1.40	1.25
1,930 ft. 15″ pipe sewer, 8 to 10' in depth	1.54	1.28	1.62	1.37
674 ft. 15″ pipe sewer, 10 to 12' in depth	1.76	1.38	2.00	1.55
20 ft. 15″ pipe sewer, 18 to 20' in depth	2.92	2.21	3.00	2.95
694 ft. 12″ pipe sewer, 6 to 8' in depth	.97	.96	1.00	1.00
318 ft. 12″ pipe sewer, 8 to 10' in depth	1.15	1.00	1.25	1.15
115 ft. 12″ pipe sewer, 10 to 12' in depth	1.33	1.16	1.40	1.30
447 ft. 10″ pipe sewer, 6 to 8' in depth	.85	.86	.90	.80
139 ft. 10″ pipe sewer, 8 to 10' in depth	1.01	.96	1.06	1.10
5 cu. yds. rock excavation in trenches	5.00	3.00	4.00	3.00
4 manholes for pipe sewer, 7' deep	51.00	70.00	50.00	47.00
6 manholes for pipe sewer, 8' deep	55.00	80.00	50.00	52.00
2 manholes for pipe sewer, 9' deep	59.00	94.00	57.00	60.00
6 manholes for pipe sewer, 10' deep	63.00	114.00	60.00	65.00
1 manhole for pipe sewer, 19' deep	115.00	160.00	100.00	140.00
Sewer District No. 7, Ninth Ward.				
2,452 cu. yds. earth fill over sewer	.75	.60	.50	.57
3,142 cu. yds. earth excav. & refill, 0' to 10'	.70	.40	.70	.50
2,142 cu. yds. earth excav. & refill, 10' to 15'	1.15	.50	1.00	.65
1,569 cu. yds. earth excav. & refill, 15' to 20'	1.15	.95	1.00	.80
753 cu. yds. earth excav. & refill, 20' to 25'	1.30	1.30	1.50	1.00
5 cu. yds. rock excavation	5.00	3.00	4.00	3.00
1,213 ft. 46″ × 69″ brick sewer (2 rings)	5.62	7.32	6.50	5.00
951 ft. 40″ × 60″ brick sewer (2 rings)	4.82	6.95	5.50	5.00
343 ft. 36″ × 54″ brick sewer (2 rings)	4.10	6.95	4.50	4.65
729 ft. 32″ × 48″ brick sewer (2 rings)	3.72	6.95	4.00	4.15
169 ft. 32″ × 48″ brick sewer Fig. 11 D. S. "A"	5.79	6.95	5.00	7.00
694 ft. 27″ × 40½″ brick sewer (2 rings)	3.30	6.75	4.00	3.60
25 ft. 25″ cir. brick sewer (2 rings)	3.85	5.00	3.85	2.80
1 manhole for brick sewer 7' in depth	45.00	70.00	50.00	60.00
2 manholes for brick sewer 8' in depth	49.00	75.00	50.00	65.00
1 manhole for brick sewer 9' in depth	53.00	80.00	70.00	70.00
4 manholes for brick sewer 10' in depth	57.50	94.00	70.00	75.00
2 manholes for brick sewer 11' in depth	62.00	105.00	70.00	80.00
1 manhole for brick sewer 14' in depth	74.00	120.00	100.00	100.00
1 manhole for brick sewer 16' in depth	86.00	140.00	100.00	110.00
1 manhole for brick sewer 19' in depth	98.00	156.00	105.00	125.00
1 manhole for brick sewer 25' in depth	138.00	225.00	110.00	175.00
1 drop manhole, Fig. 10, D. S. "A"	100.00	185.00	125.00	240.00
1 sewer junction, Fig. 5, D. S. "A"	171.00	195.00	115.00	335.00
1 sewer junction, Fig. 9, D. S. "A"	227.00	225.00	150.00	300.00
5 cu. yds. extra brick masonry	12.00	12.00	10.00	15.00
5 cu. yds. extra concrete in place	10.00	12.50	8.00	12.00
73 ft. 24″ pipe sewer, 0' to 6' in depth	2.53	1.85	2.60	1.70
207 ft. 24″ pipe sewer, 6' to 8' in depth	2.76	1.95	3.00	1.85
95 ft. 20″ pipe sewer, 0' to 6' in depth	1.86	1.65	1.90	1.50
151 ft. 20″ pipe sewer, 6' to 8' in depth	2.04	1.75	2.10	1.60
29 ft. 20″ pipe sewer, 8' to 10' in depth	2.27	1.85	2.30	1.75
18 ft. 20″ pipe sewer, 10' to 12' in depth	2.47	2.00	2.60	1.90
111 ft. 18″ pipe sewer, on fill	1.16	.83	1.25	1.00
19 ft. 18″ pipe sewer, 0' to 6' in depth	1.59	1.15	1.65	1.15
8 ft. 18″ pipe sewer, 6' to 8' in depth	1.77	1.20	1.90	1.30
31 ft. 18″ pipe sewer, 8' to 10' in depth	1.98	1.35	2.00	1.45
159 ft. 18″ pipe sewer, 10' to 12' in depth	2.21	1.50	2.30	1.65
48 ft. 18″ pipe sewer, 12' to 14' in depth	2.52	1.70	2.60	1.90
18 ft. 18″ pipe sewer, 14' to 16' in depth	2.82	1.95	3.00	2.25
22 ft. 18″ pipe sewer, 16' to 25' in depth	3.56	2.25	3.75	2.25
100 ft. 15″ pipe sewer, 0' to 6' in depth	1.14	1.13	1.20	1.10
424 ft. 15″ pipe sewer, 6' to 8' in depth	1.31	1.18	1.40	1.25
758 ft. 15″ pipe sewer, 8' to 10' in depth	1.49	1.28	1.62	1.40
538 ft. 15″ pipe sewer, 10' to 12' in depth	1.70	1.38	2.00	1.60
205 ft. 15″ pipe sewer, 12' to 14' in depth	1.99	1.49	2.10	1.80
310 ft. 10″ pipe sewer, 6' to 8' in depth	.85	.86	.90	.80
130 ft. 10″ pipe sewer, 8' to 10' in depth	1.01	.96	1.06	1.00
5 cu. yds. rock excavation	5.00	3.00	4.00	3.00
1 manhole for pipe sewer, 7' in depth	51.00	70.00	50.00	47.00
3 manholes for pipe sewer, 8' in depth	55.00	80.00	50.00	52.00
2 manholes for pipe sewer, 9' in depth	59.00	84.00	57.00	60.00
3 manholes for pipe sewer, 10' in depth	63.00	114.00	60.00	65.00
3 manholes for pipe sewer, 11' in depth	67.50	122.00	62.00	75.00
1 manhole for pipe sewer, 12' in depth	72.00	130.00	70.00	80.00
1 manhole for pipe sewer, 15' in depth	92.00	140.00	85.00	100.00
Totals for Sewer District No. 7	$36,465	$43,628	$38,254	$34,554
Totals for Sewer District No. 9	55,102	61,256	58,046	52,411
	$91,568	$104,884	$96,300	$86,965
Rejected	3,000	3,000	4,800	4,800
Totals for Sewer Districts Nos. 7 and 9	$87,968	$101,884	$91,500	$82,165

MISCELLANEOUS CONTRACTS.

*MATTRESSES, SILL.—New Orleans, La.—Two bids were received by Col. E. H. Ruffner, Corps Engrs., U. S. A., July 6 (a postponement from June 20), for constructing sill across Cubit's Gap and The Jump, and placing additional mattresses on sill across head of Pass-a-Loutre, Mississippi River. The bidders were Richard M. Murphy, of New Orleans, La., and CHRISTIE & LOWE, of Chicago. Contract was awarded to the latter at about $212,000.

DREDGING.—Fernandina, Fla.—Bids were received on July 1, by Lieut. Col. Dan C. Kingman, Corps Engrs., U. S. A., for dredging in harbor at Fernandina. (This contract was advertised in Engineering News, to be let July 18, but date was changed to July 1.) The American Dredging Co., Brunswick, Ga., is lowest bidder at 17¾ cts. per sq. yd. for dredging 500,000 sq. yds. of material. Col. Kingman has recommended that the bid be accepted.

IMPROVING RIVER.—Binghamton, N. Y.—The Legislature has passed a bill, becoming chapter 249, Laws of 1907, authorizing the city of Binghamton to issue bonds, if approved at a special election to be held in that city, for a sum not to exceed $70,000, for the purpose of regulating and improving the flow of the Chenango River in this city. Hiram H. Woodburn, Mayor, informs us that no plans or specifications have been prepared yet.

GRADE CROSSINGS.—Buffalo, N. Y.—The Grade Crossing Commissioners have sent a communication to the Board of Aldermen recommending the issue of bonds in the sum of $200,000 to pay the city's share of the work of eliminating the New York Central grade crossings at Broadway and Bailey Ave. (Main Line) and the Belt Line grade crossings of the same road from Kensington Ave. to Amherst St. They also advise the Board of Aldermen that John Johnson is the lowest bidder for reinforced concrete work and recommend that this material be used in the grade crossing work mentioned. The bids received on July 13 for the abolition of the crossings in question were as follows: Group No. 1:

Essex Construction Co., stone masonry, $193,419; monolithic concrete, $179,044; reinforced concrete, $169,694.

Miller & Franklin, stone masonry, $180,613; monolithic concrete, $156,333; reinforced concrete, $159,003.

Joseph F. Stabell Co., stone masonry, $157,162; monolithic concrete, $158,791; reinforced concrete, $162,077.

John Johnson, stone masonry, $149,261; monolithic concrete, $139,374; reinforced concrete, $135,026.

Buffalo Dredging Co., stone masonry, $181,591; monolithic concrete, $165,678; reinforced concrete, $177,663.

Frank J. Reap, stone masonry, $224,370; monolithic concrete, $218,160; reinforced concrete, $222,318.

Corning Engineering Co., stone masonry, $190,067; monolithic concrete, $173,882; reinforced concrete, $182,086.

Eastern Concrete Steel Co., stone masonry, $187,381; monolithic concrete, $173,392; reinforced concrete, $187,725.

Group No. 2:

Miller & Franklin, stone masonry, $154,198; monolithic concrete, $123,383; reinforced concrete, $121,913.

Joseph F. Stabell, stone masonry, $137,344; monolithic concrete, $138,594; reinforced concrete, $139,469.

John Johnson, stone masonry, $129,823; monolithic concrete, $122,263; reinforced concrete, $112,785.

Frank J. Reap, stone masonry, $203,352; monolithic concrete, $176,447; reinforced concrete, $189,597.

Corning Engineering Co., stone masonry, $145,039; monolithic concrete, $136,257; reinforced concrete, $137,603.

Eastern Concrete Steel Co., stone masonry, $147,561; monolithic concrete, $131,883; reinforced concrete, $142,523.

U. S. POSSESSIONS AND CUBA.

(* *denotes that this work is advertised in Engineering News.*)

PIER.—Porto Rico.—The Insular Dock Co., of San Juan, Porto Rico, has obtained authority from the Secretary of War to construct a pier 400 feet long and 100 feet wide, covered by a one-story iron shed, in San Juan Harbor. Other piers are in contemplation.

DREDGING.—Hawaii.—We are advised by Capt. Curtis W. Otwell, Corps Engrs., U. S. A., Honolulu, that bids will be received about August 15 for dredging in Honolulu Harbor, $200,000 having been appropriated, and $200,000 additional authorized by the River and Harbor Bill.

STEAM SHOVELS.—Panama.—Bids were opened as follows at the Isthmian Canal Commission, Washington, D. C., July 16, for eleven steam shovels: The Bucyrus Co., South Milwaukee, Wis., (a) $106,480, (b) $97,400, 120 days; Marion Steam Shovel Co., Marion, Ohio, $110,412, 140 days; Excelsior Equipment Co., Pittsburg, Pa., $115,434, 165 days.

GALVANIZED IRON PIPE.—Panama.—Bids were opened as follows by the Isthmian Canal Commission, Washington, D. C., July 16, for 63,500 ft. of black and galvanized iron pipe: Bridgman Bros. Co., 1426 Washington Ave., Philadelphia, $15,532, 90 days; Central Metal & Supply Co., 609 East Lombard St., Baltimore, Md., $17,390, 90 days; E. F. Keating, 452 Water St., New York, $10,865, 75 days; U. S. Steel Products Export Co., 24 State St., New York, $14,172, 120 days.

MISCELLANEOUS SUPPLIES.—Panama.—Bids are asked until July 30 by the Isthmian Canal Commissioners for two gasoline motor cars having capacity to seat ten people; 95 electric fan motors; one pit pattern track scales, having capacity 100 tons; two sets of test pumps and gages; 25,000 ft. standard galvanized iron pipe; 50 lengths angle steel; 500 sheets planished iron; 300 sheets blue annealed Bessemer sheet iron; 253 bars of tire steel; 6,400 lbs. of rivets of various sizes; 500 lbs. of nuts; 18,000 lbs. nails, etc.

*BRIDGES.—Porto Rico.—Bids are asked until 10 a. m., Aug. 20, by the Bureau of Public Works, of the Department of the Interior, San Juan, for erecting three steel riveted highway bridges, spans 49 ft. 6 in., 62 ft. 3 in. and 35 ft. 3 in. long for the Mulas, Higuero and Convento Creeks, respectively, located on the Bayamon-Comerio Road. J. J. Jimenez is Supt. of Pub. Wks.

Bids are asked also until 10 a. m., Aug. 20 for furnishing on dock at San Juan, P. R., for furnishing and erecting in place, or for erecting only, a steel riveted-through truss highway bridge 316 ft. 2-in span for the Reyes Catolicos bridge, near Toa Alta, on the Reyes Catolicos-Corozal Road.

CIVIL SERVICE EXAMINATIONS.

CLERK-TYPEWRITER DRAFTSMAN.—San Francisco, Cal.—The U. S. Civil Service Commission announces an examination on Aug. 21, to secure eligibles from which to make certification to fill a vacancy in the position of Clerk-Typewriter and Draftsman, Office of the Artillery Engineer, Artillery District of San Francisco, Cal., at $1,200 a year, and vacancies as they may occur in any branch of the service requiring similar qualifications. Age limit, 18 years. Application Form 304.

COMPUTER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Aug. 14-15, to secure eligibles from which to make certification to fill a vacancy in the position of Computer, from $1,000 to $1,600 a year, according to capacity and experience of the appointee, in the Supervising Architect's Office, and similar vacancies as they may occur in that office. Age limit, 20 years. Application Form 1312.

MAP PRINTER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Aug. 14, to secure eligibles to fill one vacancy in the position of Map Printer, qualified as lithographic transferrer, Geological Survey, at $1,100 a year, and vacancies as they may occur in any branch of the service requiring similar qualifications. Applicants are desired who have had experience in making transfers to stone, zinc and aluminum. Preference in appointment will be given to those who have had experience in map work. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Age limit, 20 years. Application Form 1093.

CIVIL ENGINEER AND SUPERINTENDENT OF CONSTRUCTION.—Washington, D. C.—On Aug. 14-15 the U. S. Civil Service Commission will hold an examination to secure eligibles from which to make certification to fill a vacancy in the position of Civil Engineer and Superintendent of Construction, at $1,500 a year in the Quartermaster's Department at Large, at each of the following named places, and vacancies as they may occur in any branch of the service requiring similar qualifications: Cheyenne, Wyo., for duty at Fort D. A. Russell; San Francisco, Cal.; Fort Dade, Fla.; Fort De Soto, Fla.; Fort Hunt, Va.; Fort Washington, Md.; Fort Monroe, Va.; New London, Conn.; Fort Sill, Okla.; Fort Yellowstone, Wyo.; Fort Logan, Colo., and in addition three vacancies likely to occur and vacancies for filling positions at new stations to be established in the Quartermaster's Department. Age limit, 20 years. Application Form 1312.

TRADE PUBLICATIONS.

REINFORCED CONCRETE.—Pin Connected Girder Frame. The General Fireproofing Co., Youngstown, O. Paper, 6½ × 10¼ ins.; pp. 32; illustrated.

In the effort to get away from the straight tension rods in beams with no provision for shear this company has devised a truss frame reinforcement with upper and lower chords and diagonals, the special patented device being the pin-connection over the columns whereby the four intersecting beam or girder frames are firmly tied together and into the column.

FOUNDATIONS. — Compressol System of Foundations, Patented. Hennebique Construction Co., New York. Paper; 6¾ × 9½ ins.; pp. 8; Illustrated.

The Compressol system of foundations, described in Engineering News, v. 44, p. 209, consists in mechanically perforating the ground by means of dropping a heavy conical weight, thus compressing the earth vertically and laterally. The hole is then filled with concrete. This concrete is thoroughly tamped, thus obtaining a strong pillar supported both on its sides and at its bottom. This catalogue describes its successful operation in many places.

WIRE FENCING.—The Truss & Cable Fence Co., Cleveland, O. Paper; 9 × 6 ins.; pp. 32; illustrated.

The peculiarity of this company's fence is that it resembles a board fence in arrangement, each "board" consisting of top and bottom strands with diagonal mesh wires woven into them. The width varies from 2 to 4 ins., and the number and spacing of the lines of fence vary according to the requirements. For extra light fencing the separate lines may be connected by vertical stays applied after the fence has been erected. It is used for railway right-of-way and general purposes.

CRESOTING.—Gulfport Creosoting Co., Gulfport, Miss. Paper; 6 × 9 ins.; pp. 12; illustrated.

This pamphlet sets forth the advantages of timber preservation in general and the creosoting process in particular. The plant and process are described and there is a table for calculating the cubic contents of timber piles.

RAIL JOINTS.—Societe des Eclisses a Serrage Permanent Sans Boulons, 84 Rue du Ranelagh, Paris, France. Paper; 5½ × 8½ ins.; pp. 44; illustrated.

This pamphlet describes a boltless rail joint, having a channel shaped base in which the rail is secured by tape wedges driven between the web of the rail and the sides of the clamp. Details of tests of strength of the joint are given.

DERAILS.—Hayes Track Appliance Co., Geneva, N. Y. Paper; 6 × 9 ins.; pp. 24; illustrated.

The Hayes derail for sidetracks belongs to the class having a derailing block, which lies on the rail, thus leaving the track unbroken when the switch is closed. Several different patterns are shown, with the switch connections and operating stands. Instructions are given for setting the device in place.

RAILWAY FENCING.—American Steel & Wire Co., Chicago. Paper; 7¾ × 5⅞ ins.; pp. 36; illustrated.

The American and Elwood fences are described, with the different ordinary and special designs for right-of-way and station grounds. The anchoring, stretching and bracing of the fence are also described. Prices are given for fences of various sizes of wire and mesh. Gates with iron frames and wire coverings are included.

INDUSTRIAL AND PORTABLE RAILWAYS.—Arthur Koppel Co., 1639 Monadnock Block, Chicago. Paper; two pamphlets; 8 × 10 ins.; pp. 12; 6 × 4½ ins.; pp. 28; illustrated.

These pamphlets show the varied application of railways and equipment of this character. The first shows the track construction (complete sections with rails riveted to steel ties), turntables, switches, locomotives and a variety of cars for contractors, plantation, coal, concrete and other purposes. The second pamphlet consists of half-tone views of this equipment in use for excavation, and for handling coal, freight, etc.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 24.

BRICK PAVING.

Plainfield, N. J.

Sealed proposals will be received by the Common Council of the City of Plainfield, N. J., on Monday, August 5th, 1907, at 8 P. M., for the construction of brick pavement, including:

15,792 sq. yds. brick pavement;
1,035 lin. ft. new curb;
1,400 lin. ft. curbing reset;

With surface and underdrains and appurtenances.

A certified check for $300 to accompany each bid. The total amount of bond required will be $20,000.

Duplicate plans may be examined, and forms of proposals, specifications, contract and bond may be obtained at the office of the engineer, 151 North Avenue, Plainfield, N. J.

GEO. B. WEAN,
City Clerk pro tem.

ANDREW J. GAVETT,
City Surveyor.

Dated July 15, 1907. 3-2t

REINFORCED CONCRETE ARCH BRIDGE.

Glencoe, Ill.

Bids are invited for a reinforced-concrete arch bridge of 40-ft. span at Glencoe, Ill. Plans and specifications may be seen at the office of Harry I. Orwig, 121 La Salle St., Chicago. Bids will be opened July 31, 1907, by the County Commissioners of Cook County, at their office, Chicago, Ill. 3-2t

STORM WATER DRAINAGE.

Cape May, N. J.

Bids are asked until noon, Saturday, July 27th, for furnishing tools and laying 1,300 lineal feet of 18-in. T. C. Pipe; 100 lineal feet of 24-in. T. C. Pipe; 100 lineal feet of 12-in. T. C. Pipe; and building 3 manholes and 6 Catch Basins on Beach Avenue, Cape May City, N. J. All material for doing above work furnished.

CAPE MAY REAL ESTATE COMPANY,
EDMUND K. BROWN,
3-1t Resident Engineer.

COMMONWEALTH OF MASS... HUSETTS.

CHARLES RIVER BASIN CO... MISSION.

Sealed proposals will be re... ed at the office of the Charles River Ba... Commission, 367 Boylston Street, Bosto... Mass., until 2.30 o'clock, P. M., of Mo... y, August 5, 1907, for building a portion ... the Cambridge Marginal Conduit. Th... work will require approximately 2,000 cu... yards of concrete masonry, 40,000 linear ... of piles, and the excavation and refill o... out 1,900 linear feet of trench. Pamph... contains ing further information for bidd... forms of proposal, contract and specifica... s will be ready about July 20th, and will ... mailed to contractors who apply to the ... f Engineer, or may be obtained at h... ffice, No. 367 Boylston Street, Boston, whe... lso plans may be seen. The printed form ... be used in making proposals. The Com... sion reserves the right to reject any ... all proposals, and to accept the propo... deemed best for the Commonwealth. ... NRY S. PRITCHETT, Chairman, HENR... D. YERXA, JOSHUA B. HOLDEN, C... es River Basin Commission; HIRAM A... ILLER, Chief Engineer; WILLIAM S. Y... NGMAN, Secretary. 3-2t

FORT HANCOCK, N. J., July ... 1907.—Sealed proposals for installing ... filtration plant at Fort Hancock, N. J., ... l be received here until 2 o'clock P. M. ... August 6, 1907. Information furnished on ... plication. U. S. reserves right to reject ... or all proposals. Proposals should ... marked "Proposals for Filtration Plant," ... addressed M. N. FALLS, Constructing Quartermaster. 3-4t

U. S. ENGINEER OFFICE, Pittsburg, Pa., July 12, 1907.—Sealed proposals for building a lock with two chambers, two guide walls and two guard walls, at Brownsville, Pa., on the Monongahela River, will be received at this office until 12 M., Aug. 12, 1907, and then publicly opened. Information furnished on application. H. C. NEWCOMER, Maj., Engrs. 3-4t

SITUATIONS OPEN

INSTRUMENTMAN wanted for work on property surveys. State experience and salary. Address "O. A. 3," Engineering News, New York. 3-1t

DRAFTSMAN AND COMPUTER wanted for work on property surveys. State experience and salary. Address "P. A. 3," Engineering News, New York. 3-1t

INSTRUMENTMAN wanted for making surveys; must be good at figures and do own drafting. State salary. Address "R. A. 3," Engineering News, New York. 3-1t

TIMEKEEPER, preferably young engineer or rodman, on reinforced concrete work, to handle steel, correct measurements, and keep time and reports. Must be experienced on reinforced work. Address T. H. FRAZIER, McKeesport, Pa. 3-1t

A GOOD OPPORTUNITY for first-class Structural Engineer who has had experience, to connect with firm in the structural and ornamental iron business that owns its own plant free from debt. Rare chance to a man that can invest $3,000. Address "C. 2," Engineering News, New York. 3-1t

Miscellaneous Wants

TRANSIT—SECOND-HAND—WANTED

By a building contractor. Must be accurate and in good condition. Give description and state best price. B. A. HOWES, 1193 Broadway, New York City. 3-1t

FOR SALE

FOR SALE.

Little Giant Steam Shovel

New last November; shop number 1127; job just finished. Has dipper handle for digging trench 16 feet deep and 6 feet wide.

AMERICAN PAVING & CONSTRUCTION CO., 211 S. 9th St., Philadelphia, Pa. 3-4t

WATER WORKS PUMP

FOR SALE CHEAP.

A two-million gallon 12 and 22 × 14 × 18 outside, center packed plunger type ... new and ready for immediate delivery; complete with condenser and heater.

C. H. WHEELER MANUFACTURING CO., Philadelphia. 3-4t

CENTRIFUGAL PUMPS

FOR SALE.

Two Van Wie Centrifugal Pumps, with direct-connected Vertical Engine, 10-in. suction; 8-in. discharge; capacity on 25-ft. lift, 2½ million gallons per day each. CONSOLIDATED WATER CO. of Utica, N. Y., 234 Genesee St., Utica, N. Y. 3-1t

Books on LETTERING
By O. W. REINHARDT Price, $1.00
By Prof. H. S. JACOBY Price, $2.00